



U.S. DEPARTMENT OF  
**ENERGY**

# **NATIONAL SCIENCE BOWL®**

for Middle School Students

## Discoveries Changing the World

June 19–22, 2008  
Golden, CO



**NATIONAL EVENT  
PROGRAM**

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## 2008 National Science Bowl® for Middle School Students

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James Cook was an English naval explorer sailed to faraway lands such as Tahiti, the North and South Pacific, and New Zealand and Australia and attempted to find the Northwest Passage and chart the Siberian coast. He is credited for his country's initial interest in colonizing Australasia and surveying many remote areas such as Easter Island and Marquesas and Tonga Islands. His explorations were cut short when he was killed in a scuffle with Hawaiian islanders.

# NATIONAL SCIENCE BOWL®

## for Middle School Students



2008

### Regional Winning Teams and Hosting Sites

#### Alabama

1. St. Ignatius Catholic School, Mobile, AL  
– Alabama School of Mathematics and Science

#### Arizona

2. Madison Park School, Phoenix, AZ – Arizona  
Technology Council

#### Arkansas

3. Chaffin Junior High School, Fort Smith, AR  
– Arkansas – Oklahoma

#### California

4. Challenger School, Newark, CA – NOBCCChE/  
NHU – San Jose
5. Edison Computech 7 – 8, Fresno, CA –  
AHETEMS
6. Florence Nightingale Middle School, Los  
Angeles, CA – Los Angeles SHPE
7. Hopkins Junior High School, Fremont, CA  
– Sandia National Laboratories — California

#### Connecticut

8. Newtown Middle School, Newtown, CT  
– University of Connecticut

#### Florida

9. Archimedean Middle Conservatory, Miami, FL  
– Florida Solar Energy Center

#### Idaho

10. Treasure Valley Math and Science Center,  
Boise, ID – Northwest Regional

#### Illinois

11. Jerling Junior High School, Orland Park, IL  
– Argonne National Laboratory

#### Indiana

12. Honey Creek Middle School, Terre Haute, IN  
– Indiana State University

#### Iowa

13. Evans Middle School, Ottumwa, IA – Ames  
Laboratory/Iowa State University

#### Maryland

14. Takoma Park Middle School, Silver Spring, MD  
– University of Maryland

#### Massachusetts

15. Jonas Clarke Middle School, Lexington, MA  
– University of Connecticut

#### Michigan

16. Heilmann Park Middle School, Detroit, MI  
– NOBCCChE Midwest / Wayne State University

#### Minnesota

17. Field Community School, Minneapolis, MN  
– Minnesota Academy of Science

#### Mississippi

18. Clinton Junior High School, Clinton, MS –  
Mississippi School for Mathematics and Science

#### Montana

19. Riverside Middle School, Billings, MT – Billings  
Clinic Science Expo

#### Nebraska

20. Lux Middle School, Lincoln, NE – Natural  
Resources Conservation Service

#### Nevada

21. Hyde Park Middle School, Las Vegas, NV –  
Las Vegas

#### New Jersey

22. John Witherspoon Middle School, Princeton, NJ  
– Princeton Plasma Physics Laboratory

#### New Mexico

23. Los Alamos Middle School, Los Alamos, NM  
– Albuquerque Academy
24. Sierra Middle School, Las Cruces, NM –  
SHPE Region 5 — El Paso Community College

#### New York

25. Bellport Middle School, Bellport, NY –  
Brookhaven National Laboratory
26. St. Christopher School, Tonawanda, NY  
– Rochester NOBCCChE
27. Van Antwerp Middle School, Schenectady, NY  
– KAPL, Inc./GE Global Research Center

#### Oregon

28. ACCESS Program in Portland Public Schools,  
Portland, OR – Bonneville Power Administration

#### Pennsylvania

29. Ingomar Middle School, Pittsburgh, PA – North  
Allegheny School District

#### Texas

30. Jack Jordan Middle School, San Antonio, TX  
– South Central Texas
31. Lorenzo de Zavala Middle School, La Joya, TX  
– The University of Texas — Pan-American
32. McCullough Junior High School, The  
Woodlands, TX – Texas A&M University
33. St. Andrews Episcopal School, Amarillo, TX  
– B&W Pantex

#### Vermont

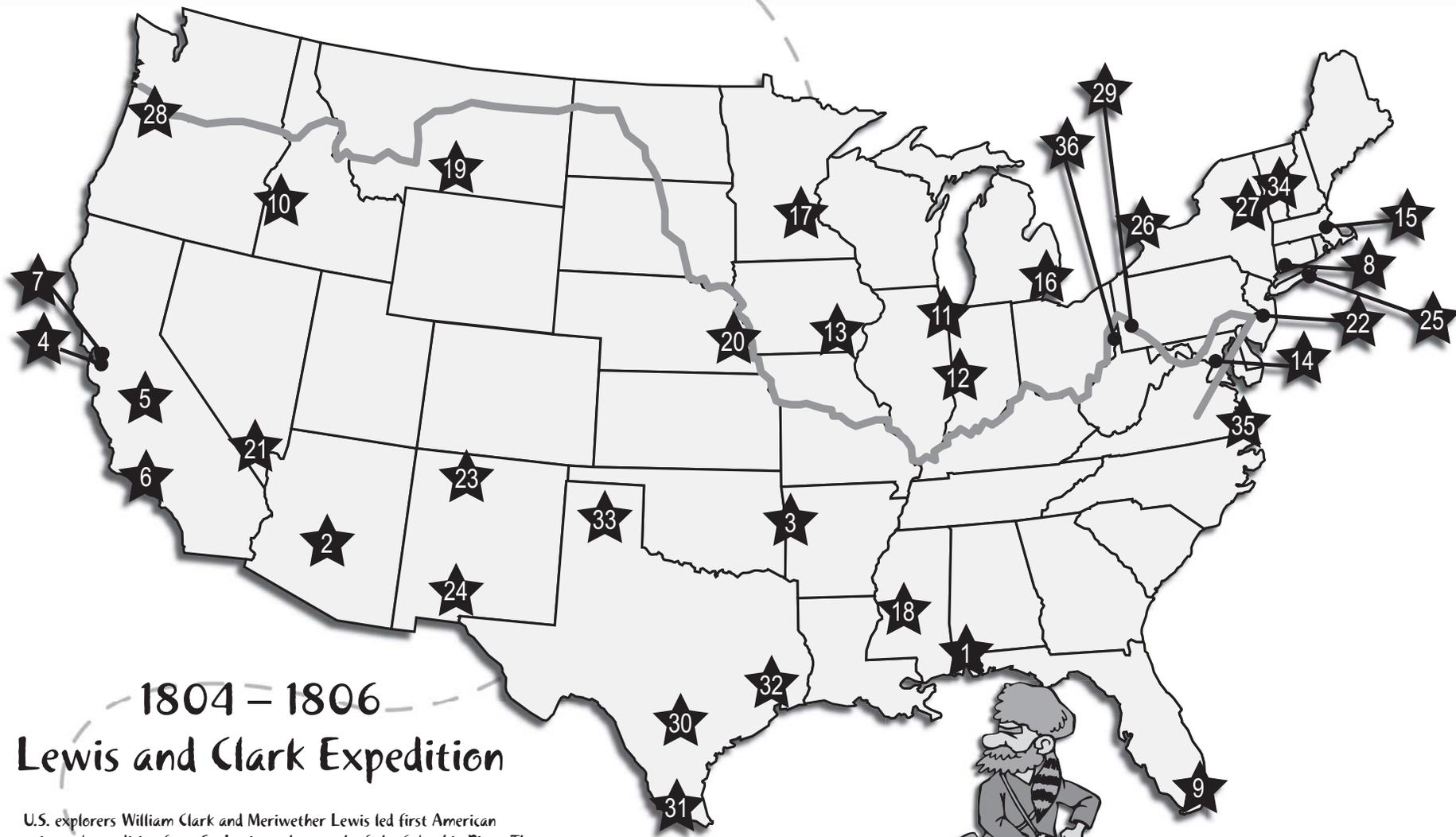
34. The Sharon Academy, Sharon, VT – Woodstock  
Union Middle School

#### Virginia

35. Kemps Landing Magnet School, Virginia Beach,  
VA – Jefferson Lab

#### West Virginia

36. Triadelphia Middle School, Wheeling, WV  
– West Liberty State College SMART Center



1804 - 1806

## Lewis and Clark Expedition

U.S. explorers William Clark and Meriwether Lewis led first American transcontinental expedition from St. Louis to the mouth of the Columbia River. They encountered many perils along the way, including hostile Native Americans and bitter weather. Their maps and journals encouraged western expansion, detailed plant and animal life, and provided invaluable geographic knowledge to the United States.

# Discover the 2008 Star Science Explorers

# ACCESS Program in Portland Public Schools — Portland, Oregon

## BONNEVILLE POWER ADMINISTRATION



Left to right: Nathan Showell, Julia Renner, Alfonso Garcia Arriola (Coach), Ian Blakley, Jonathan Davidson, Tommy Celt

**T**eam Coach—**Alfonso Garcia Arriola** teaches fourth – eighth grade science in the ACCESS Program in Portland Public Schools. Mr. Garcia Arriola has been teaching middle school science for 10 years. He received a Bachelor of Science degree in biology from Gonzaga University and he is currently working towards a Doctoral degree in curriculum and instruction at Portland State University. Mr. Garcia Arriola's hobbies include futsal and golf. He is from Guadalajara, Mexico, and resides in Portland with his wife, Madeline, and daughters, Isabel and Natalia.

**T**eam Members—**Ian Blakley** is a seventh grader. He plays soccer and other team sports with his friends. He has moved many times but dislikes changing schools. He started Science Bowl this year and has enjoyed the excitement of the competitions. Ian dislikes mornings but enjoys late night parties. He cannot wait to compete next year in the Science Bowl competition. Seventh grader **Tommy Celt** was born, and has lived his entire life, in Portland. He lives in NE with his mother, father, two brothers, seven frogs, two turtles, guinea pig, and dog. In his spare time, he enjoys listening to and playing music on his guitar, bass, and drums. In addition, he likes playing soccer with friends and skateboarding. **Jonathan Davidson** is a 12-year-old seventh grader. He was born in Pittsburgh, PA, and moved to Oregon at the age of two. He is enthusiastic about school and enjoys math, Earth science, and life science. He is also very good at writing. His hobbies include ski racing and wrestling. He is also passionate about fighting global warming. **Julia Renner** is a 12-year-old seventh grader. Her hobbies include reading, writing, science, math, and running. In her spare time, she enjoys researching genetics and disease, listening to music, and spending time with her pets and her friends. She wants to be a geneticist or a pediatric oncologist. **Nathan Showell** is in the eighth grade. Some extracurricular activities Nathan enjoys are playing the piano, studying Spanish, and playing chess. Nathan also composes music and programs his own computer games. Nathan's favorite subjects in school are math and science. He does not know where he wants to go to college but he would like to have a science or engineering career.

# Archimedean Middle Conservatory — Miami, Florida FLORIDA SOLAR ENERGY CENTER



Left to right: Shiva Kangeyan, Aditya Shetty, Amy Lee, Leonardo Sanchez-Noya, Keyan Zolfaghari; Not pictured: Dr. Kalaiselvi Panneerselvam (Coach)

**T**eam Coach—**Dr. Kalaiselvi Panneerselvam** is a mom, teacher, and coach for her son, Shiva, and his friends at Archimedean Middle Conservatory, a Greek school in Miami. She has been teaching science for the past two years in this school. She has a Medical degree from India and a Master's in biology from Florida International University. She loves teaching the young and inspiring them to love science—so she started science clubs at the school. She motivates the students to compete in science competitions like Science Olympiad, Science Bowl, etc. She loves reading, listening to old classical music, and spending time with her son.

**T**eam Members—**Shiva Kangeyan** is an 11-year-old lefty in the sixth grade. He loves reading books, especially world history, comics, and anything about airplanes and bicycling. He also enjoys listening to the Beatles. He likes to visit places and camp with his dad's students on their geology tours. His favorite subjects are science, geography, history, and geology. He is happy that he will be competing at the Scripps National Spelling Bee and National Geographic Bee in Washington, DC, this May 2008. He would like to become an aircraft designer or a weapons engineer. **Amy Lee** is a sixth grade student. She enjoys reading, swimming, playing with her friends, and traveling. In the future, she would like to go to a good university to study and become a pediatrician. Something special about her is that she is learning both Chinese and Greek languages. **Leonardo Sanchez-Noya** is a 12-year-old sixth grader. His interests are basketball, fishing, and planes. His favorite hobbies are deep sea fishing with his dad, traveling, and boating in his backyard lake. His future goal is to become a design mechanical engineer for a big company. His favorite subjects are science, math, and history, and he is also multilingual. **Aditya Shetty** is a sixth grader. In his spare time, he likes to play basketball, soccer, and football. He also likes to read sports almanacs and geography books as well as play video games and computer games. He likes to take quizzes online about various subjects, normally about science, geography, or basketball. In school, his favorite subjects are geography, PE, and science. He would like to go to UCLA and get drafted into the NBA. **Keyan Zolfaghari** is in the sixth grade. At school, he and his fellow students learn the Greek language and math through Greek immersion. He likes meteorology, physical science, and playing on the computer. One of his future goals is to go to an Ivy League school and major in a math- or science-related subject.



# Bellport Middle School — Bellport, New York BROOKHAVEN NATIONAL LABORATORY



Left to right: Ian Patterson, Michelle Henriksen, Sajid Hossain, Daniel Garisto, Joseph Neese, Ryan McGlynn

**T**eam Coach—**Matt Gualtieri** teaches technology education at Bellport Middle School. This is his third year of teaching at Bellport. He earned a Bachelor's in technology education from the State University of New York at Oswego and an M.A. in liberal studies from the State University of New York at Stony Brook. Some of his hobbies include being an automotive enthusiast, woodworking, surfing the Web, and learning about alternative energy systems. If someone brought him a broken item, most of the time he could fix it, but it may never be the same after a few modifications. He has a very good ability to recall years and names of classic or odd looking automobiles at a glance.

**T**eam Members— **Ryan McGlynn** is an eighth grader. He is in the science club, of course, and is also a member of chamber orchestra. He participates in track and field and cross-country. He is interested in biology, but his favorite subject is math. He is good at math, but doesn't like remembering all the details involved in the subject. Right now, he plans to go into the field of biotechnology, but that could change. A couple of interesting facts about him are that he loves rock music, has been playing the electric guitar for three years now, and enjoys listening to rock music and trying to play his favorite songs. He had a great opportunity to experience the People to People Forum in Washington last year. Not only did he learn a great deal, he was also asked to write a speech about freedom and then read it to everyone at Arlington Cemetery. **Joseph Neese** is an eighth grader who loves to swim, golf, and read. He is currently and always will be in science club and drama club, and is a viola player. His favorite subjects are math, biology, social studies, philosophy, and music. He plans to attend NYU and study archaeology and/or biotechnology because of his interest in helping the disabled. **Ian Patterson** is an eighth grader. He is interested in science, social studies, and math. He likes to Ripstick, which is similar to skateboarding except it carves. He also likes to play chess and the tuba. He also enjoys playing football. He is in chess club and science club. His favorite subject in school is science. His future plans in life are to be a dentist and/or orthodontist or a scientist. He enjoys school and is passionate about science and alternative energy. He would like to attend John Hopkins University in Baltimore.

# Chaffin Junior High School — Fort Smith, Arkansas ARKANSAS — OKLAHOMA



Left to right, Back row: Rima Bhakta, Rachel Davis, Alan Pinter; Front row: Kathy Dai, Langdon Emms; Not pictured: Sandy Aaron (Coach)

**T**eam Coach—**Sandy Aaron** received a B.A. in English from Harding University and an M.A. in G/T from the University of Arkansas. She has been teaching at Chaffin for 26 years, where she coaches the Quiz Bowl, Science Bowl, KMO, and Robotics teams. An avid Packers fan, she enjoys attending games at Lambeau Field, reading, sewing, and walking her smooth Collie, Cody.

**T**eam Members—**Rima Bhakta** is in seventh grade and is involved in band, where she plays the clarinet. She also is on the Quiz Bowl team. She hopes to pursue a career in the medical field after attending college. She can speak English, Hindi, Gujarati, and Spanish. She is a vegetarian who loves to hang out with her friends, listen to music, and just have fun. Seventh grader **Kathy Dai** goes by the name of “Thy,” pronounced like the letter “T.” She is of Vietnamese and Chinese heritage. She is a proud violinist in the orchestra. Her hobbies are graphic design, web design, movie making/editing, speed skating, swimming, and martial arts. She is in Science Club, Partners in Christ, and Quiz Bowl. She designed the Robotics team’s Web site. Kathy hopes to be either a physician or a graphic designer. She loves music, plays the piano, and composes songs for her friends. She is multilingual, speaking English, Vietnamese, and some Japanese. **Rachel Davis** is in seventh grade and is very much involved in band, where she plays the French horn. She also plays basketball, volleyball, and runs track. She enjoys maintaining an active lifestyle. She is a member of Partners in Christ, FCA, and the Quiz Bowl team. Rachel would like to pursue a career in marine biology or professional basketball. She loves hanging out with friends, listening to music, and going to football games. **Langdon Emms** is a seventh grader who participates in Science Bowl, Quiz Bowl, KMO, and Robotics. He is a Boy Scout in troop #98. His favorite subject in school is math, and he plans to attend college at BYU. Some of his interests are playing baseball and soccer, collecting coins, and playing the trumpet in the school band. **Alan Pinter** is a seventh grader who is involved in choir, the Robotics team, and the Quiz Bowl team. He is very good with computers and enjoys setting them up, along with televisions, home theaters, and other A/V components. He loves to read, but is not a very good writer. He likes to swim, bike, and walk, and enjoys nature. His favorite subject is science.

## Challenger School — Newark, California

NATIONAL ORGANIZATION OF BLACK CHEMISTS AND CHEMICAL ENGINEERS/  
NATIONAL HISPANIC UNIVERSITY — SAN JOSE



Left to right: Dipty Desai (Coach), Rahul Joshi, Nikhil Desai, Aditya Mukund, Aditya Limaye, Arun Pingali, Raji Pingali (Coach)

**T**eam Coaches—**Dipty Desai's** main interest has been research. Her Ph.D. work at the University of California, San Francisco was on the "Regulation of Cell Cycle Proteins and Their Role in Cancer" while her Post-Doctoral fellowship through HHMI at Stanford University allowed her to conduct work on "High Throughput cDNA Scanning of the Whole Genome for Differential Expression of Proteins in Normal Versus Cancer Cells." She currently works with pharmaceutical and biotech firms in India and the United States carrying out collaborative research and development projects. Dipty has taught Biochemistry and Applied Microbiology at the university level and has helped coach Science Olympiad, Science Bowl, Odyssey of the Mind, and Robotics teams from Challenger School. **Raji Pingali** hails from a family of teachers. She is a chemist by education (Ph.D. from Texas Tech University), and a software engineer by profession. Her interests range from science activities for school children to classical Indian music. She volunteers for various community services like the homeless shelter, Hindu temple, and chess tournaments. She has introduced several programs to Challenger School children and has coached some of the activities, such as Odyssey of the Mind, Science Olympiad, Math Olympiad, MathCounts, Science Bowl, and chess. In her spare time, she reads and listens to music.

**T**eam Members—**Nikhil Desai** is an eighth grader who has interests and hobbies ranging from science and robotics, speech and acting, to skiing and music. He enjoys participating in competitive events like the National Geographic Bee, Math League contests, Science Bowl, Science Olympiad, and the Scripps Spelling Bee. He also participates in the First Lego League Robotics and Odyssey of the Mind. Nikhil's favorite subjects are math, science, and computer programming. In his free time, he likes to read books, edit Wikipedia, chat with his friends, strum the guitar, and play tennis. **Rahul Joshi** is a seventh grader. His hobbies are coin and rock collecting. His interests include reading books, playing video games, and playing tennis. He has participated in the Odyssey of the Mind, First Lego League, Science Olympiad, and Science Bowl. His favorite subjects are math and history. He plans to attend a college such as UC Berkeley or Stanford and become a pediatrician. **Aditya Limaye** is an eighth grader. His favorite subjects are chemistry and physics, and he loves to experiment. He has participated in the First Lego League Robotics, Odyssey of the Mind, Science Bowl, and Science Olympiad. Outside of school, he loves to play his guitar and has a passion for football. The Rubik's Cube is one of his favorite pastimes, and he loves to curl up with a good book, preferably science fiction. His aspirations include going to a college such as UC Berkeley or M.I.T., and getting a Doctorate in chemistry. **Aditya Mukund** is a seventh grader. He enjoys math and science and is a voracious reader. He participates in Math Agility, Science Olympiad, First Lego League, and Science Bowl. In his spare time, he enjoys Sudoku puzzles, swimming, and basketball. He is also learning classical South Indian music and has participated in local performances. He is vice president of the Student Council. He hopes to pursue a career as a scientist. **Arun Pingali** is an eighth grader. He enjoys playing sports, such as soccer, basketball, and table tennis. He participates in science and math competitions and has been a participant in Odyssey of the Mind for the past five years. He is working toward his black belt in Karate. He likes to play chess and participate in tournaments. He is a student of Indian classical music, learning to play the percussion instrument Tabla. His favorite subject is math. His future plan includes getting an advanced degree in math/computer science.

# Clinton Junior High School — Clinton, Mississippi

## MISSISSIPPI SCHOOL FOR MATHEMATICS AND SCIENCE



Left to right: Timmy Lewis, Matthew Tucker, Sam Dent, Gurjit Kaur, Emily Vaughn; Not pictured: Linda White (Coach)

**T**eam Coach—**Linda White** teaches at Clinton Jr. High School in Clinton, MS. This is her first year teaching at Clinton as well as her first year ever to teach. She was formerly employed by the USDA Forest Service. After receiving her Master's in Education in 2006, she came back home to Clinton to teach. She enjoys keeping up with current science events and issues, environmental issues, reading, and gardening. The most exciting part of her first year to teach has been coaching CJHS's winning Science Bowl Team.

**T**eam Members—**Sam Dent** is in the eighth grade. He likes video games very much and appreciates football every now and then. He is in the National Junior Honor Society, MathCounts, band, and the CJHS Environmental Club. Sam's favorite subjects are Algebra I and science. The career Sam wishes to pursue is a rock band member/graphics. He plans to do this by attending Mississippi College. Last year, Sam won the Mississippi Council of Teachers of Mathematics (MCTM) competition for the seventh grade. **Gurjit Kaur** is in the eighth grade. She likes to swim and play soccer. She is also in the Historical Society. Her favorite subjects are science and social studies. She plans to go to medical school and become a doctor. One interesting fact about her is that she has a collection of teddy bears. **Timmy Lewis** is in the eighth grade. He likes to play football and Guitar Hero. He was on the swim team and is currently on the tennis team and in the band. Timmy's favorite subject is science. When he grows up he wants to be an architect. This is Timmy's first year in Clinton. He is also a Boy Scout. **Matthew Tucker** is in the eighth grade. He is on the football team, the swim team, and Recreation Soccer Team, and he also runs track. He likes to play outside and enjoys books. His absolute favorite subject is science. He plans to go to University of Southern Mississippi and study polymer science. **Emily Vaughn** is currently in the eighth grade. She likes to sail and play volleyball. In addition to being a member of Clinton's Science Bowl Team, she is a junior Docent at the Jackson Zoo, a member of the National Honor Society, and participates in her church's CYO. Her favorite subjects are art, Algebra I, and science. She plans to attend the University of Tampa and become a marine biologist.

# Edison Computech 7-8 — Fresno, California

## ADVANCING HISPANIC EXCELLENCE IN TECHNOLOGY, ENGINEERING, MATH AND SCIENCE FOUNDATION



Left to right: Tim Anderson, Matthew Martinez, Karina Lomeli, Boris Pavic, Austin Felger, Lisa Poole (Coach)

**T**eam Coach—**Lisa Poole** currently teaches seventh grade life science at Edison Computech 7-8, a math, science, and integrated technology magnet school in Fresno. She has been teaching at Computech for 25 years. She received Bachelors' degrees in biology and art from CSU – Fresno and a Master's degree in integrated math and science education from Fresno Pacific University. She has the privilege of working with many talented students on the school's Science Bowl and Science Olympiad teams. She volunteers for numerous organizations and has LOTS of hobbies and interests, including music, sports, photography, traveling, crafts, hiking, and backpacking. She is very proud of her students and looks forward to seeing what their futures hold.

**T**eam Members—Eighth grader **Tim Anderson** recently graduated with Honors from Edison Computech 7-8. He enjoys music and plays piano, percussion, and the tuba in his school's band. He also plays first chair position in his region's Honor Band and Orchestra and volunteers every Sunday at church to play both keyboard and percussion. He is president of California Junior Scholastic Federation (CJSF), Vice President of LIFE Club, webmaster of the school Web site, and Student Council commissioner. He is a member of the Math, Geography Bee, and Science Olympiad Teams. He earned his Junior Black Belt in Shotokan Karate and has been a member of his school's golf and track and field teams. He regularly participates in local community service projects assisting the homeless and underprivileged. His plans for college include earning a Bachelor's in aerospace engineering, a Master's in nuclear physics, and a Ph.D. in chemical engineering. **Austin Felger** is an eighth grader. In addition to the required classes, he also takes geometry, TA (teacher's aide), German, and a Web design class called Webheads. He likes to build Web pages, learn C++, play video games, build and take apart computers, and (as nerdy as it may sound) gain knowledge. He is a member of several clubs at school, such as Webheads, Science Bowl, the golf team, and a little club he and his friends like to call the "Bacon Brigade." After high school, he plans to major in engineering at Cal Poly, as engineering and learning about how things work have always intrigued him. He joined the Science Bowl team because he believes that it is a really good chance for people like him to challenge what they know. **Karina Lomeli** is a seventh grader. She loves basketball, softball, volleyball, soccer, and jump rope. In her free time, she reads or plays sports (and sometimes watches television). She also enjoys boxing and Karate. One of her favorite subjects is science because there is always something new to learn. She also enjoys algebra because she is good at math. She learns very quickly! She hopes to go to Stanford or UC Berkeley and major in science or math. **Matthew Martinez** is a seventh grader. Some of his interests are reading, photography, and especially running. Cross-country is his favorite sport. He likes to read about rocks, minerals, and animals. He enjoys volunteering and he recently volunteered at the March of Dimes for Babies, which helps prematurely born and sick babies. He is a member of the California Junior Scholarship Foundation. His favorite subjects are history, science, and PE. He hopes to attend Stanford University and someday become either a biologist or a photographer. **Boris Pavic** is a seventh grader. His interests and hobbies include sports, building things, and doing science experiments. He also loves to travel and has visited several countries in Europe and Central America. His favorite subjects are math and science. Besides English, he is able to speak Serbian, the language spoken in the country of his ancestors. When he grows up, he would like to work with animals.



**Evans Middle School —  
Ottumwa, Iowa**  
**AMES LABORATORY/IOWA STATE UNIVERSITY**



Left to right, Front row: Jianwa Bennett, Lily Elbaum, Sarah Beadle; Back row: Alex King (Director, Ames Laboratory), Tivy Wixom, Sue Happel (Coach), Jacob Huebener

**T**eam Coach—**Sue Happel** has been a middle school teacher for 35 years—27 in Iowa and 8 in the Middle Eastern country of Bahrain. Her students have participated in the Middle School Science Bowl each of the five years it has been held in Iowa. They are making their second trip to Nationals in three years. Previously, they placed second in the state competition and last year won the state fuel cell car competition.

**T**eam Members—**Sarah Beadle** is an eighth grader. Sarah is involved in Math Club, band, 4-H, tennis, church, and other school activities. She loves animals and the outdoors and is very outgoing. She would like to pursue something in the medical field when she is older. **Jianwa Bennett** is a seventh grader. This is his first year as a Regional Middle School Science Bowl participant. He is in the talented and gifted program at Evans. He also participates in cross-country, basketball, baseball, and track. His favorite subject in school is science. He plans to become a physicist. **Lily Elbaum** is an eighth grader. She also competed in the Regional Middle School Science Bowl last year. Lily has been involved in Mock Trial, History Day, and Math Bee. She loves playing tennis, swimming, and horseback riding. She would like to become an architect or engineer. **Jacob (Jake) Huebener** is a seventh grader. This is his first year as a Regional Middle School Science Bowl participant. He is also involved in Math Bee, Mock Trial, and History Day. He loves sports such as baseball and football. Scouts and hunting are some other hobbies of his. Jake would love to be in the NFL for his career. **Tivy Wixom** is a seventh grader. This is his first year as a Regional Middle School Science Bowl team member. He also participates in 4-H, band, and the school news program. In the future, he hopes to become a physicist.

## Field Community School — Minneapolis, Minnesota MINNESOTA ACADEMY OF SCIENCE



Left to right: Richard Schultz, William Plunkett, Jordan Meyer, Keira Jacobs, Erik Peterson, Tracey Schultz (Coach)

**T**eam Coach—**Tracey Schultz** has been teaching middle grades science for 10 years in the Minneapolis Public Schools. A graduate of the Minneapolis Public Schools herself, Tracey pursued her undergraduate and graduate work on the warmer west coast. She has a degree in biology from Stanford University and a Master's in Education from UCLA. Tracey enjoys traveling, distance running, chasing middle school students through the lab, skiing, biking, and spending time with her family.

**T**eam Members—**Keira Jacobs** is an eighth grade student. She enjoys math and science as well as graphic design and sculpting. Keira participated in the First Lego League program for three years and competed in two regional math tournaments. Keira is a member of the orchestra. She plays the cello and is currently teaching herself bass guitar and guitar. Keira is also a soccer player and competes on a traveling team. In her spare time, Keira likes to dance really badly to techno pop music and practice wild turkey calls. She hopes to be on a Robotics team in high school and pursue a career in engineering. **Jordan Meyer** is an eighth grade student. Jordan is the president of the Student Council. He enjoys science and math. He is a member of both the choir and band. Jordan plays the French horn, piano, and bass guitar in a rock band. Jordan lived in Papua New Guinea during his early years. He likes sailing and snorkeling. He plans to pursue a career in medicine—pathology or surgery. In his spare time, Jordan slays dragons. **Erik Peterson** is an eighth grade student. He enjoys learning about science and history. Erik is a leader on the Student Council, fluent in German, and runs cross-country. In his spare time, Erik enjoys German rap and troll hunting. Erik plans to pursue a Ph.D. in history and become a college professor. **William (Will) Plunkett** is an eighth grade student. He enjoys science and language arts. Will is a member of both the choir and band. He plays the tuba, timpani, and piano. He is also a castanet player in a well-known Swedish rock band. In addition to Science Bowl, Will participates in the Math Club and plays soccer and hockey. He plans to pursue a Doctorate degree in marine biology.

# Florence Nightingale Middle School — Los Angeles, California

## LOS ANGELES SOCIETY OF HISPANIC PROFESSIONAL ENGINEERS



Left to right, Front row: Carlos Machuca, Tommy Truong, Shao Zhao, Rongyi Zhu, Jacqueline Mendoza; Back row: Yvonne Martinez (Coach), David Meyerhof (Coach)

**T**eam Coaches—**Yvonne Martinez** teaches sixth grade language arts, history, and ESL at Florence Nightingale Middle School. This is her second year of teaching at Nightingale. She is also an advisor to the MESA Program at school. She received her Bachelor's degree in liberal studies from UC Riverside with a major in ethnic studies and a minor in education. She earned her Master's in education while completing her teaching credential program from UC Riverside. Along with her teaching career, Yvonne enjoys cooking, baking, and spending time with her two children and husband. She also likes playing hockey and comic character drawing. **David Meyerhof** teaches math/science to sixth grade honors students at Florence Nightingale Middle School. He has been teaching in the Los Angeles Unified School District for 31 years. He has been the Lead Teacher for the Mathematics, Engineering, Science Achievement (MESA) Program for 14 years. He attended U.C. Santa Barbara and received his B.A. in sociology and multiple subjects teaching credential from California State University, Los Angeles. David has been in the Who's Who Among America's Teachers in 2005 – 2006 and 2006 – 2007. His grandfather, Otto Meyerhof, won the 1922 Nobel Prize for Medicine and Physiology for discovering how sugar is converted into energy in the human body.

**T**eam Members—**Carlos Machuca** is an eighth grader. He has been playing the violin in the school Orchestra for three years. He has performed in the Chamber Ensemble. Also, he has been a MESA member for three years. This is his first year participating in the National Science Bowl®. His favorite subject is geometry. Carlos hopes to attend U.C. Berkeley, Stanford, or M.I.T. He would like to become a mechanical engineer. He knows how to compute taxes and has helped his father and brother build a house. **Jacqueline Mendoza** is a seventh grader. She likes reading, painting, and listening to music. She is the seventh grade MESA president. She is in her first year of the National Science Bowl®. She likes all of her classes. Jacqueline wants to attend medical school and become a doctor. She believes that school gives you the opportunity to achieve your dream. She will do her absolute best to succeed in life. She says that her parents taught her moral values, standing up for herself, and making her voice heard. **Tommy Truong** is an eighth grader. He enjoys reading, surfing the Web, and watching TV in his free time. His favorite subjects are mathematics and science. This is the first year he has participated in the National Science Bowl® for Middle School Students. He plans to continue in Science Bowl at his future high school, Abraham Lincoln High School. Tommy has been a MESA student for three years. He plans to attend the California Institute of Technology (Caltech) as a computer science major. **Shao Zhao** is a sixth grader. She likes to read, watch television, and go to the movies. She is very interested in politics, the history of people, and current events. She is a member of the MESA program. This is the first year she has been in the National Science Bowl®. Her favorite subjects are English and history. Shao plans to attend college and major in business, marketing, law, or journalism. She wants to attend a major university and make a difference in our society. **Rongyi Zhu** is a sixth grader. His interests include technology, engineering, astronomy, physics, and chemistry. His hobbies are swimming, art, reading, chess, Kung-Fu, and joining contests. His favorite subjects are art, math, and science. He plans to attend UCLA. He would like to become a spacecraft scientist, chemist, or an engineer who solves the problem of pollution. He emigrated from China at age five, learned how to multiply and divide at age six, and now has a twelfth grade level in English.

# Heilmann Park Middle School — Detroit, Michigan

## NATIONAL ORGANIZATION OF BLACK CHEMISTS AND CHEMICAL ENGINEERS — MIDWEST/WAYNE STATE UNIVERSITY



Left to right: Naqia Stephens, Jalen Sims, Kela Morton, Demasi Darby, and Ayanna Haamid; Not pictured: Tamika Morgan (Coach)

**T**eam Coach—**Tamika Morgan** has been teaching in the Detroit Public School District for 10 years. She is the coach of the Heilmann Middle School Science Club and teaches after school tutoring. In her spare time, she studies the art of Tae Kwon Do. Her favorite movie is "Love and Basketball." She graduated from Florida Memorial University, where she majored in aeronautics, and Wayne State University.

**T**eam Members—**Demasi Darby** is in the eighth grade and loves science, language arts, and math. His favorite is science because it is often the most challenging. He has always shown artistic abilities as well as great academic abilities. He belongs to several clubs such as Academic Games, Principal's Club, Art Club, Choir, DAPCEP, and People to People, and he is currently in the honor's class. He wishes to go to Princeton University and study law. His favorite color is red and he loves the Harry Potter series. He has many friends and enjoys hanging out with them. **Ayanna Haamid** is currently in the eighth grade. Reading and science are her favorite subjects. One of Ayanna's accomplishments includes participating in an essay contest, winning first place. In the fifth grade, she was awarded "Future Teacher." While in elementary school, Ayanna participated in the Beckham Report. Ayanna wants to attend a university and major in journalism. She likes to style hair, and would like to attend cosmetology school and receive her cosmetology license. She loves to talk on the phone, surf the Internet, and spend time with her friends and family. Ayanna's motto is "In order to be successful, a person must show confidence in whatever they do." **Kela Morton** is in the eighth grade. She enjoys talking on the phone, listening to music, and contemporary dance. Her favorite subjects are math and science. She has many creative qualities and good study habits. In her senior years of elementary school, she participated in Academic Games and won first place. She is also vice president of the National Junior Honor Society. Kela plans to attend Oakland University and become a surgeon. **Jalen Sims** is in the eighth grade. His favorite subjects are reading, math, and science. He plays on the Heilmann boy's basketball team, which won this year's championship. During his spare time, he likes to try out different sports and hang out with his friends and family. When he gets older he wants to go to the University of Alabama or the University of Memphis to play on the basketball and/or the football team, while earning a degree in computers. **Naqia Stephens** is in the eighth grade. She enjoys being on the computer, writing short stories, and listening to music. She is the president of the National Junior Honor Society. In the fifth grade, she participated in Academic Games, Future Teacher, and Choir. Naqia has been a member of the DAPCEP organization for five years. Her favorite subjects are math, science, and social studies. Her plans are to attend Princeton University or Stanford University and major in criminal justice. Her favorite color is baby blue.

# Honey Creek Middle School — Terre Haute, Indiana INDIANA STATE UNIVERSITY



Left to right: Ian Francis, Andrew Keiser, Julie Bittar, Mark Botros, Carol Tolin (Coach), Michael Mardini

**T**eam Coach—**Carol Tolin** teaches sixth, seventh, and eighth grade science in a gifted and talented program at Honey Creek Middle School. She likes to spend her summers gardening, playing golf, and traveling. She feels fortunate to be working in a profession that she loves and working with such a wonderful group of students and their families.

**T**eam Members—**Julie Bittar** is a 13-year-old eighth grader. Her hobbies include tennis, soccer, and dance. She also participates in other academic competitions such as the Indiana Academic Super Bowl. Julie hopes to attend Harvard Medical School to become a radiologist. **Mark Botros** is a 14-year-old eighth grader. This is his second trip to Denver for the Science Bowl. His hobbies are experimenting, fishing, and playing sports. He plays tennis and soccer. Mark also competes in academic competitions such as MathCounts. In the future, he hopes to be an inventor. **Ian Francis** is a 14-year-old eighth grader. He enjoys soccer, Boy Scouts, and camping. He also participates in 4-H, and enjoys riding his bike and playing soccer. His favorite school subject is science. He wants to go to the Rose Hulman School of Engineering. **Andrew Keiser** is a 14-year-old eighth grader. He enjoys baseball, dodgeball, Boy Scouts, camping, biking, and fishing. He also competes in other academic competitions such as Spelling Bees, his school's Super Bowl, and MathCounts, where he made it to the national level in 2007. Andrew wants to go to Harvard Law or Princeton. **Michael Mardini** is an eighth grader. He likes to read and watch TV in his spare time. He has participated in other academic competitions besides Science Bowl. His favorite subject in school is science. He plans on attending a good school, but is not quite sure of what he wants to be.

# Hopkins Junior High School — Fremont, California

## SANDIA NATIONAL LABORATORIES — CALIFORNIA



Left to right: Alpa Shah (Coach), Siddarth Sen, Jay Shah, Prasanna Rajan, Jonathan Melville, Dr. Paul Ricks (Coach), Max Isenberg

**T**eam Coaches—**Paul Ricks** has been a science teacher at Hopkins Junior High for the past 20 years. Prior to teaching at Hopkins he was a professor at San Francisco State University. Dr. Ricks received his Doctorate degree from the University of California at Berkeley in 1984 and his M.S. degree from Brigham Young University in 1974. He loves a wide variety of sports. For the past 10 years he has coached the Hopkins basketball team to three league champions. He has also been a little league and soccer coach for Fremont leagues. He loves outdoor activities including, fishing, boating, and hiking. **Alpa Shah** is a senior software engineer at a leading chip maker company in the Silicon Valley and is working on developing device drivers for graphics chipsets. She loves working with youth and has a passion for helping them understand the marvels of science, which is what motivated her to become the coach of the Hopkins Science Bowl team. She has a Bachelor's of Engineering in computer engineering from Gujarat University, India and led research and development of various financial, telecommunications, and computer hardware projects. She enjoys using computer modeling to solve complex problems and make the world a better place to live. In her spare time, she enjoys reading, swimming, and traveling.

**T**eam Members—**Max Isenberg** is an eighth grade student. Max's hobbies include reading science fiction books, playing games (any sort), directing movies, memorizing movie lines, and listening to Weird Al songs. Max is considering a career as a mutual fund manager, rich philanthropist, history teacher, stuntman, supporting actor, and astronaut. Eighth grader **Jonathan Melville** was born and lived in Southern California before moving to the San Francisco Bay Area in 2000. He is taking honors courses in English, science, and ninth grade math. He loves science and has competed in Odyssey of the Mind and the Science Bowl competition in past years. He aspires to be a quantum physicist. Given his natural curiosity and voracious appetite for books, he might just make it. Jonathan enjoys strategy games and Dungeons and Dragons. **Prasanna Rajan** is an eighth grade student. His favorite subjects are science and math. He also enjoys playing baseball and basketball. He loves reading and playing chess and video games. He is a member of the Math Club. He has a deep interest in music and plays trumpet in his school Jazz and Symphonic bands. He is also a student of classical Indian music. He plays flute in both South and North Indian style. Prasanna plans on becoming a surgeon and serving society. **Siddarth Sen** is an eighth grade student. This is his first year to compete in the Science Bowl. Siddarth enjoys reading and playing soccer in his spare time. During the winter he often skis and snow boards at Lake Tahoe. His favorite hobby is geocaching, which takes participants to unusual places and allows them to meet fascinating people. Siddarth is hoping that he will be able to look for geocache in Colorado this summer. **Jay Shah** is an eighth grader. He is the team captain of his school's MathCounts team. Jay won second place at the National Math Bee organized by the North-South Foundation in 2005. His interest in science grew when he first captained his school's team at the Regional Science Bowl two years ago. Since then, he has won in Science Fair competitions at district level and has been taking advanced science courses at the Center for Talented Youth (CTY), Johns Hopkins University. In 2007, Johns Hopkins University e-rolled Jay in S.E.T. (Study of Exceptional Talent) and invited him to Baltimore, MD, to present an award for his exceptional performance on the SAT at the age of 12. In his spare time, Jay likes to play basketball and baseball. He aspires to be a neurologist.

# Hyde Park Middle School — Las Vegas, Nevada LAS VEGAS



Left to right, Front row: Alan Vo, Dipika Bhandari, Christina Hill, Enrique Mendez, Alberto Leyva; Back row: Edward Patricks (Coach), Steve Curtis (Coordinator)

**T**eam Coach—**Edward Patricks** is the Science Department chairman for Hyde Park Middle School in Las Vegas. He was born in Chicago, IL, and lived there much of his life. He has lived in Las Vegas for the past 10 years. His interests include science and sports. He has coached teams in many different sports. He is involved with his school, church, and community. He has been teaching for 28 years. His favorite color is green and his favorite holiday is Saint Patrick's Day!

**T**eam Members—**Christina Hill** is currently enrolled in the eighth grade. Her hobbies and interests include baking, writing, politics, and, of course, science. In the future, she plans on starting a career as a politician, using her science background to solve problematic environmental issues. To further her political background, she is currently involved in the "We the People" Club. But no matter where she is, she is always highly involved in science. **Alberto Leyva** is in the eighth grade this year. The school he attended before Hyde Park was Ruth Fyfe Elementary School. His interests are mostly anything that revolves around technology. He loves looking at how stuff is made and fixing computers. He also plays soccer and is on a Soccer Club. His activities include church activities and being on the Science Bowl Team. His favorite subject in school is science because you get a lot of hands-on learning. Alberto's future plans for college are to find a very good school, where he can major in computer science or something that helps or involves technology. Some interesting facts about him are that he is intelligent in the Science Department, and when people ask him questions, he usually knows the answer off the top of his head. He also can juggle a soccer ball with his feet 110 times. **Enrique Mendez** is an eighth grade student who has a passion for math, inventing, and thinking. Though he likes math, his best subject is science. He likes to invent because it allows him to see new successful creations that will perform nice enjoyable effects. He enjoys putting circuits together and being very creative! **Alan Vo** is in the eighth grade. His interests are video games. He has attended the Science Bowl Club at his school. His favorite subject in school is science. He plans to go to college.

# Ingomar Middle School — Pittsburgh, Pennsylvania NORTH ALLEGHENY SCHOOL DISTRICT



Left to right: Dana Boyd (Coach), Jeremy McCandlish, Skanda Koppula, Joey Eisner, Cathy Li, Beth Hartigan; Not pictured: Ann Hilty (Coach)

**T**eam Coach—**Ann Hilty** has been a middle school teacher for the North Allegheny School District for 24 years. For the last nine years, she has been one of the middle school gifted support teachers. Her undergraduate degree in elementary education was earned at Grove City College and she received a Master's of Education from Slippery Rock University. Now that her two children are in college, she has had more time to tutor, read, peruse antique stores, and decorate. As summer approaches, she looks forward to boating, gardening, refinishing furniture, and traveling.

**T**eam Members—**Joey Eisner** is in the seventh grade. Some of his interests are the skeletal system, the mind, ancient human culture, and present-day human culture. His hobbies include figure skating, whitewater kayaking, and camping with his dad. He is involved with many clubs and activities, including the International Skating Institution, Peer Mediation, National Academic League, and the North Park Skating Team. He has no favorite subjects in school; he likes them all. However, if he had to choose one subject, he would say science. Some of his plans for the future involve applying to all of the top schools in the country to see if he is accepted and becoming a forensic anthropologist. An interesting fact about him is that he is a vegetarian. **Beth Hartigan** is in the eighth grade. Next year, she will attend North Allegheny Intermediate School. She enjoys reading, writing, and running, but not necessarily in that order. She is a member of the school's track team. Her favorite subject in school would have to be science. She would like to attend a college somewhere in the Northeast, then go to medical school to become a neurologist. She would also like to pursue writing at some point in her career. She is fascinated by biology, physics, and the English language because there is so much to understand in all three subjects. **Skanda Koppula** is a seventh grade student. He enjoys robotics, computers/technology, math, soccer, Karate, chess, violin, and of course, science. In fact, his favorite subjects are math and biology. He is currently a member of Technology Student Association (TSA), The Pittsburgh Chess Club, and the Computer Club. He would like to attend a college like Stanford or Yale and major in neurology and become a neurologist. Among many people who do know interesting facts to write, he does not know any interesting facts to write about himself. **Cathy Li** is a seventh grade student. **Jeremy McCandlish** is an eighth grader. He has a great interest in semantics, especially etymology and transformational grammar. Jeremy sings a lot, whether it be at home, school, or in a performing group (he was a member of the Children's Festival Choir of Pittsburgh for two years and he continues to sing with his temple choir). This year, he joined the National Forensics League (devoted to public speaking and performance) unofficially, and he intends to continue this pursuit. In spite of his great interest in language, Jeremy considers his favorite subject in school to be math. Advanced by two grades in this area, he took a course last summer about probability and game theory. The differences in the behavioral models presented by semantic and mathematical theories were surprising and fascinating to him! Knowing very little about it, Jeremy still lacks any precept about what college to attend. While he considers education very important, a major influence on his decision will be preserving his and his parents' economic stability. Hopefully, he will find a career he enjoys—there are a lot of options!

# Jack Jordan Middle School — San Antonio, Texas SOUTH CENTRAL TEXAS



Left to right: Tyler Tschirhart, Barbara Hart (Coach), Stephan Adkison, Lauren Lundy, Lisa Moczygemba (Coach), and Ryan DiPaolo

**T**eam Coach—**Barbara Hart** teaches at Jack Jordan Middle School in San Antonio, TX, home of the San Antonio Spurs. This is her 6th year at Jordan and 22nd year teaching middle school math. She has had the honor of being the coach for the Jordan Science Bowl Team for the past six years. Mrs. Hart earned a Bachelor's of Science from the University of Binghamton in New York. She earned a Master's of Education from Texas State. Her first Science Bowl team of students is graduating from high school this year. She enjoys reading and traveling.

**T**eam Members—**Stephan Adkison** is a seventh grader. This is his second year on the Science Bowl Team. This year was his first year to play football for Jordan and he is also a member of the band. Math, science, and English are his favorite subjects, but he likes to learn about new things in general. Stephan would like to attend M.I.T. and study computer design and software development. He likes to read and write stories. Though many would say he is a nerd, Stephan's answer to that is he was on the football team. **Ryan DiPaolo** is an eighth grader. This is his second year on the Science Bowl Team. He enjoys playing basketball and going to school. Ryan is a member of the National Junior Honor Society. Ryan plans to attend college but is leaving his options open. He likes playing golf and shoes. **Lauren Lundy** is an eighth grader. This is her second year on the Science Bowl Team. Lauren is a member of the National Junior Honor Society. She enjoys playing golf, and softball is her favorite sport. Lauren's favorite teams are the UT Longhorns and the San Antonio Spurs. Her future plans include attending the University of Texas at Austin. She plans to study to be a criminalist or doctor, or earn a veterinarian degree. **Tyler Tschirhart** is a seventh grader. This is his second year on the Science Bowl Team. Tyler enjoys astronomy, reading, swimming, fishing, and hunting. He was born in Oceanside, CA, and later moved to Texas. His favorite subjects in school are math and science. Tyler is a member of the Jordan band. Tyler plans to become an astrophysicist.

# Jerling Junior High School — Orland Park, Illinois ARGONNE NATIONAL LABORATORY



Left to right: Luke Walls, Dennis Lynch, Natalie Helms, Judy Stellato (Coach), Dan Faltenberg, Shane Mossman; Not pictured: Denise Sabo (Coach)

**T**eam Coaches—**Denise Sabo** teaches eighth grade science at Jerling Junior High in Orland Park, IL, which is a suburb of Chicago. This is her first year teaching science and first year all together. She graduated from Eastern Illinois University with a degree in elementary education with the middle school option. She is endorsed in science, math, and language arts. The students have been preparing for this from the beginning of the year by the enrichment activity on alternate energy that is brought into the curriculum. She enjoys reading, traveling, and outdoor activities. **Judy Stellato** teaches eighth grade science at Jerling Junior High. She has been teaching science for 16 years, all in the same school district. She returned to college to get certified to teach when her two boys were young. She ended up with a double major (physical science and education) and a minor in math. Her involvement with the MSSB started back when it was the Junior Solar Sprint. She uses the MSSB as part of a year-long enrichment activity on alternate energy with her honors class. This is the first team from Jerling to ever go to the National competition. She has participated in Argonne National Laboratory's Science Teacher Professional Development program for three years. Her favorite pastimes include reading, working in the garden/yard, watching NASCAR, and bowling (only when she bowls well!).

**T**eam Members—**Natalie Helms** is an eighth grade student. She loves to act, sing, and make jewelry. She hopes that she will attend a good college to acquire a Master's degree and later become an actress. She was in the play at school and is also part of the Jazz band. Her favorite subject in school is language arts because she really likes to write. Being in the Science Bowl has been a wonderful experience. She will keep the memories close to her for the rest of her life. **Dennis Lynch** is an eighth grade student. He is part of the school Math Team, declamation Team, Concert band, and Jazz band. In his spare time, he enjoys reading, playing video games, and listening to music on his iPod. He enjoys math class and band. In the future, he hopes to obtain a Master's degree in computer engineering at the University of Chicago. Obviously, the National Science Bowl® will greatly help him to achieve his goals, and it is a very prestigious honor for him to be allowed to compete in such a nationally acclaimed competition. **Shane Mossman** is an eighth grade student. He loves playing on the computer, and he usually downloads music on iTunes and puts movies on his iPod. He plays the baritone in the eighth grade Concert band at his school and in the Jazz band. His favorite class is P.E. In the future, he has no clue what occupation he wants to have. In his spare time, he plays Guitar Hero III. He is really glad he has this opportunity in his life. **Luke Walls** is an eighth grade student. He loves to play the piano and read. He later plans to attend a college in California and acquire at least a Master's degree in chemistry. At school, he is the president of the Student Council and he plays the piano and trumpet in the school Jazz band. The Science Bowl has made him realize the different opportunities available in the science world. He definitely can tell the Science Bowl has affected the way he looks at new technology.

# John Witherspoon Middle School — Princeton, New Jersey

## PRINCETON PLASMA PHYSICS LABORATORY



Left to right, Back row: Sabar Dasgupta, Tim Anderson (Coach), Rye Anderson, David Wright, Rosi Wilkin, Arlene Anderson (Coach); Front row: James Schure, Simon Gabriel, Enric Boix

**T**eam Coaches—**Arlene Anderson** received a B.S. degree in environmental biology from Southampton College of Long Island University and an M.S. degree in environmental engineering management. She has worked as an environmental scientist for Westchester County and for the last 13 years with the U.S. Environmental Protection Agency in petroleum spills prevention and hazardous incident response, including the World Trade Center and Hurricane Katrina. She has enjoyed environmental education as a guest speaker and demonstrator in elementary and high school programs in New Jersey. Her favorite authors include Jane Austen and William Shakespeare. **Tim Anderson** received a B.S. degree in biology from McGill University in Montreal, Canada. He worked in environmental programs in Westchester County, NY, where he met and married his assistant coach. Returning to school for an M.S. degree in marine environmental sciences from MSRC at Stony Brook in 1994, he investigated the biogeochemistry of hypoxia in Long Island Sound and bioremediation in groundwater. He was inspired in science and teaching by his high school science teachers “Fast Phil,” “Tony D,” and “Mr. Weid.” He has taught AP Environmental Science, physics, geosciences, biology, and chemistry during 10 years in Princeton High School. He enjoys fishing in Long Island Sound for large fish in a small canoe, hiking, sailing, and backcountry camping. His favorite authors are J.R.R. Tolkien, Frank Herbert, Isaac Asimov, and John McPhee & Sigurd Olson.

**T**eam Members—**Rye Anderson** is a sixth grader who likes baseball, cycling, basketball, skiing, and fishing. He plans to be a physicist and is considering Caltech, M.I.T., or Princeton. His favorite subjects in school are Advanced pre-Algebra, science, and history. His favorite books include *The Hobbit*, and *the Edge Chronicles*. Rye has volunteered at the Environmental Education Tent at Hudson River Sloop Clearwater’s Revival since the age of seven, teaching concert-goers about local fish and invertebrates. **James Schure** is an eighth grader who likes to launch model rockets, bicycle, and sing. He has been a member of the Keystone State Boy’s Choir since 2005, traveling to Southeast Asia and Australia. James is a member of the Engineering Club and is a Pre-Bronze Level ice dancer. His favorite subjects are Algebra II and science. His favorite author is Robert Louis Stevenson. He wants to be a naval engineer after studying at Princeton University. **Rosalin (Rosi) Wilkin** is a seventh grader. She enjoys reading, writing fantasy fiction, swimming for fun, exercise, and singing in the school choir (and in the shower). Rosi listens to a wide variety of rock, alternative, and world music on her iPod. Her science interests are Earth science and natural history, and she loves to travel. Rosi was born in Australia and she lived in New Zealand before she moved to Princeton in 2001. She has many pets and may become a veterinarian. **David Wright**, the team’s captain, is an eighth grader who enjoys playing ice hockey on his travel team. He also plays lacrosse and runs track. David plays trombone in the eighth grade Jazz band and the Concert band at his school. His favorite subject in school is science. In his free time, David likes playing on the computer. He wants to be a computer programmer and a helicopter pilot when he is older.

# Jonas Clarke Middle School — Lexington, Massachusetts

UNIVERSITY OF CONNECTICUT



Left to right: Christine Lung, Alan Chou, James Lung, Zaroug Jaleel, Darwin Ding, Mohammed A. Jaleel (Coach)

**T**eam Coach—**Dr. Mohammed A. Jaleel** is a physician by profession. After graduating from India in medicine from Stanley Medical College, Madras, India, he relocated to the United Kingdom and completed post-graduation. He is also a member of the Royal College of Physicians in the UK. Currently working and settled in Boston as the Medical Director for Winchester Hospital Inpatient Specialists, he is also the Managing Partner and President for New England Inpatient Specialists. He loves to spend time with his family. He likes to go mountain biking, skiing, and playing chess. He loves to teach about advances in science for his son Zaroug's schoolmates.

**T**eam Members—**Alan Chou** is a seventh grader. Alan grew up in Lexington and went to Bridge Elementary School. Alan enjoys playing baseball and tennis and loves video games. Alan has many favorite subjects including science, math, and French. He is a member of the school's Math Team. Alan enjoys middle school so much at this very moment in time that he prefers to leave the making of future plans and other serious stuff for a later date. **Darwin Ding** is a seventh grader. He enjoys reading, drawing, basketball, tennis, track, and playing on computers. He is a percussionist in his school band. Darwin has been playing the piano since the age of four. During the holidays, Darwin and his friends occasionally perform for senior citizens at a local nursing home. Darwin played for the J.V. school soccer team. In 2007, he and his school team won the State Team Chess Championship and took third place in the National Scholastic Chess Championship for seventh grade. Darwin hopes to be accepted into M.I.T. in the future. **Zaroug Jaleel** is a seventh grader who enjoys reading, tennis, and baseball. He twice participated in the National Geographic Society Geography Bee and finished 11th. Zaroug also loves playing chess and won the State Championship for Junior High in 2007. He was a member of the school team that won the State Chess Championship in 2006 and then took first place in the 2006 Nationals. His favorite subjects are math and science. He plays violin and saxophone with the school orchestra and band. Zaroug wishes to attend either Harvard or Yale and aspires to become the U.N. Secretary General when he grows up. **Christine Lung**, an eighth grader, is 14 years old. She likes swimming and music. Her favorite subjects in school are drama and science. Christine was a member of the K-6 State Chess Championship team. She is also an accomplished piano player and competed at the MNTA Bay State championship. This is Christine's first year on the Science Bowl team. She would like to pursue a career in orthodontics. Christine is the second child of a five-child family. Her parents are En-Kuang and Florence. **James Lung**, a seventh grader, is 12 years old. He likes soccer, swimming, music, and chess. His favorite subjects in school are history, math, and science. James was a member of the K-5 National Chess Championship team in 2006. James also won singles state chess championships in both elementary and middle school sections. He is also an accomplished cello player. This is his second year on the Science Bowl team. James wants to become a medical doctor when he grows up. He is the middle child of a five-child family. His parents are En-Kuang and Florence.

# Kemps Landing Magnet School — Virginia Beach, Virginia

## JEFFERSON LAB



Left to right: Victoria Jones, Raymond Mao, Kristina Davis, Campbell Shiflett, Darrin Willis, Stephen Carozza (Coach)

**T**eam Coach—**Stephen Carozza** is an Earth science teacher at Kemps Landing Magnet School. His decision to become a science teacher was greatly influenced by a passionate biology professor in college. He has been an educator since 1988 and received a B.A. in science education from Old Dominion University and his M.S. in education from Regent University. He has earned 21 hours of continued course work in the areas of technology, science, and education. Mr. Carozza taught overseas in Senegal, West Africa, and then in New Delhi, India. His hobbies include travel, photography, acoustic guitar, and science.

**T**eam Members—**Kristina Davis** is an eighth grader. Through her hard work and dedication, she is currently taking Algebra II/Trig at Princess Anne High School. In her free time, she enjoys to read and write. She is participating in many extracurricular activities. She has worked hard to bring her team into first place. This year, her Debate Team won first place in the city for Negative Debate. Also, in the school year of 2006 – 2007, her team won first place in the city for the Great Computer Challenge—Music Composition Division. Kristina plans on continuing her academics and work on receiving a scholarship to the University of New York. **Victoria Jones** is in the eighth grade. She enjoys learning about cultures, travel, food, writing, music, and learning. She participates in Digital Photography Club, creative arts magazine, field hockey, NJHS, swimming, and orchestra. The colleges Victoria wishes to go to include Columbia University, Barnard College, and William and Mary. She intends to study anthropology. Last year **Raymond Mao**, an eighth grader, was able to achieve honor roll the entire year, and this year so far he has achieved all A's. Some of his hobbies include playing lacrosse on the Hampton Roads lacrosse team, playing the piano and participating in piano lessons, and attending the regional Chinese School. His favorite subjects in school are math and science. He plans on attending an in-state school. He also plans on becoming a pathologist. An avid thinker and musician, **Campbell Shiflett**, an eighth grader, has won many awards of participation and recognition within his school and throughout the city for his honor, performance, and capacity. Campbell's musical aptitude is also represented by his mathematical talents. He is currently enrolled in Algebra II/Trigonometry class at a local high school. In addition, this exemplary mind participates in an Interscholastic Debate League, and won the city championship in 2007. Scientifically endowed from a young age, Campbell hopes to expand his mind through his competition in the National Science Bowl®. In the 2007 Virginia Beach Middle School Debate Championship, eighth grader **Darrin Willis** placed first on the negative team. He plays cello, and is a member of the Kemps Landing Orchestra and Full Symphony with chorus, and has played at the regional festival, playing rigorous grade five music and receiving the highest superior grade. He has performed with the Full Symphony at the Sandler Center for the Performing Arts. He has participated in the Junior Regional Orchestra and the All-City Orchestra, and he hopes to attend the Governor's School for the Arts. In summer of 2007, he attended two sessions of Chamber Players Camp in Norfolk, VA. He also spent two weeks attending the Wilderness Adventure Camp at Eagle Rock in the mountains of western Virginia.

**Lorenzo de Zavala Middle School —  
La Joya, Texas  
THE UNIVERSITY OF TEXAS — PAN-AMERICAN**



Left to right: Mario Rojas, Margil Garza, Carlos Garcia, Jacob Mejorado, Rene Dela Cruz (Coach)

**T**eam Coach—**Rene Dela Cruz** is proud to be a Filipino. He has been a science teacher for 14 years. Right now he is an eighth grade teacher and the Science Club Chairman of Lorenzo de Zavala Middle School. He loves to spend time with his family.

**T**eam Members—**Carlos Garcia** is an eighth grader. He is interested in medical science and someday hopes to become a doctor. He wants to operate and take care of people in need at the emergency room or people who have tumors or cancer cells, or maybe even deliver babies. He really wants to help people in the future. **Margil Garza** is an eighth grader. He is a very friendly person that loves to talk about science, especially chemistry. He wants to become a chemist someday. Playing guitar and sleeping are some of his favorite pastimes. **Jacob Mejorado** is an eighth grade student. He loves to watch documentaries that deal with the human body and new technological innovations. Science is the subject that he loves most. He wants to attend UTPA and become a pharmacist someday. **Mario Rojas** is an eighth grade student. History is his favorite subject. He is in the band and plays the bass clarinet. He loves fishing and chatting with his friends. He is planning to attend college at UTPA and sees himself resting poolside in Mexico.

# Los Alamos Middle School — Los Alamos, New Mexico ALBUQUERQUE ACADEMY



Left to right: Scott Carlsten, Vickie Wang, Micha Ben-Naim, Myles Gurule', Barbara Jo Wrobleski-Mullis (Coach); Not pictured: Hank Mullis (Coach)

**T**eam Coaches—**Harry (Hank) Mullis** is presently a very happily retired entrepreneur, who has seen and accomplished all he wants for himself. It now thrills him to encourage young people to reach for the sky. This leg of his life's journey started when this facilitator met and married an introverted school teacher extraordinaire. His accomplishments include two years of substitute teaching, volunteering, chaperoning, and taking refresher courses in chemistry and the physics of weather. Plus, he does an enthusiastic Albert Einstein impersonation. **Barbara Jo Wrobleski-Mullis** has been teaching eighth grade physical science at Los Alamos Middle School for the last five years of her 36-year teaching career. She earned a B.S. in anthropology from Bucknell (PA), an M.Ed. in elementary special education from Clemson (SC) and an MST in science teaching from New Mexico Tech. She is also a National Board Certified Teacher in AYA chemistry. She loves to travel and enjoys walking, reading, crossword puzzles, and Sudoku. She has been coaching academic teams since 1984, and she is having too much fun to consider retiring.

**T**eam Members—**Micha Ben-Naim** is an eighth grader. He enjoys baking and theater. Also, he enjoys music; he plays the violin and piano. He has participated in MathCounts and Science Bowl. At school, his favorite subjects are science, math, and French. Micha is interested in archeology, but he is undecided about his career path. **Scott Carlsten** is an eighth grader. His hobbies and interests include telescope building, astrophysics, and astrophotography. Scott serves as captain of the LAMS Science Bowl Team and also actively participates on the LAMS MathCounts team. Scott's favorite subjects are science and wood shop. He plans to go to college and get a Ph.D. in astrophysics and become an experimental astrophysicist. **Myles Gurule'** is in the eighth grade and lives in Santa Fe, NM. He is a voracious reader and also enjoys rock climbing, whitewater rafting, and caving with the Pajarito Grotto Caving Club. He participates in MathCounts and Science Bowl regularly. His favorite subjects are math and science. He has played piano and violin for over five years and enjoys music. He has two dogs and a cat, and loves animals. **Victoria (Vickie) Wang** is an eighth grader. Her favorite subjects are math, language arts, and orchestra. She likes to read, write, play violin, and watch Chinese TV dramas. She wants to go to Stanford for college and study to become a pediatrician. She also wants to open up an orphanage in China. Other things she loves are apples, God, bright colors, Starbursts, and academic competitions (like MathCounts and of course, Science Bowl).

# Lux Middle School — Lincoln, Nebraska

## NATURAL RESOURCES CONSERVATION SERVICE



Left to right: Drew Bakenhus, Rich Powers (Coach), Jackson Fisher, Jessica Qiu, Michael Liou, Isaac Bohart

**T**eam Coach—**Rich Powers** earned his B.S. in middle level education and his M.A. in curriculum and instruction at the University of Nebraska – Lincoln. He has been teaching for 18 years as a middle school science and technology teacher and enjoys finding new ways to integrate technology into the classroom. He has coached National Science Bowl® and National Science Olympiad teams in the past and really likes to see the wonderful creativity, positive attitude, and hard work generated by his team. Rich, his wife, and four children live in a small community where they enjoy church, sports, and family activities.

**T**eam Members—**Drew Bakenhus** is in the eighth grade. Drew also is on the MathCounts team. When Drew is not studying, he cheers on the Nebraska Cornhuskers in football and watches NASCAR on Sundays. He plays sports like tennis, basketball, and soccer. Drew plans to attend the University of Nebraska when he goes to college. In the future, he wants to find vaccines and cures for diseases. Another scientific dream he has is to find a quick way to travel in space. **Isaac Bohart**, an eighth grader, is in MathCounts and Science Bowl. He likes to play baseball and the drums. His favorite music is metal. He really likes math and science and some day he would like to attend Duke University. He thinks he might want to be an engineer or a professor. **Jackson Fisher**, an eighth grader, is involved in MathCounts and Student Council. He likes to participate in track and cross-country. Jackson is a pretty good actor and performs in the theater in his spare time. He also enjoys music, movies, and reading. His favorite subjects are math, science, and English. He would like to go into engineering or medicine in the future. **Michael Liou**, an eighth grader, is a member of MathCounts and Science Bowl. His favorite subjects are math and science. He has many interests outside of school. He plays piano, percussion, violin, and viola. He also is a member of the Chess Team, plays basketball and tennis, and enjoys biking, traveling, and card games. He would like to attend college after high school. **Jessica Qiu** is an eighth grader who, in addition to Science Bowl, participates in MathCounts and several orchestras. Also, she enjoys running cross-country and track and field. When she graduates from high school, she plans to attend a good college.

# Madison Park School — Phoenix, Arizona ARIZONA TECHNOLOGY COUNCIL



Left to right: Kyle Chapman, Christopher Sheehan (Coach), Tim Millea, Jordan Bruner, Stefan Boccieri, Baran Balkan

**T**eam Coach—**Christopher Sheehan** has been a science teacher at Madison Park School for five years. His school district offers a highly gifted program and he teaches science to that population grades (3 – 8) daily. He is also an instructional coach at his school. He coaches/mentors several clubs including FLL Robotics Club and the Science Bowl Team. Although he is a University of Arizona Wildcat at heart, he did receive his graduate degree at Arizona State University. Some interesting facts about him include his love of poker, pool, English and Bull Mastiffs, and Jimmy Buffet. He has a wonderful wife named Sena and a daughter named Sidney Kate, who is 14 months old.

**T**eam Members—**Baran Balkan** is in the eighth grade. His main interests and hobbies are music, art, and programming. This year he joined the Robotics Club and the Science Bowl Team, which have both done very well in competitions this year. His favorite subjects are science and language arts. For his future, he plans to get a Ph.D. from a good college in America, such as the University of Arizona, or overseas in Turkey. He plans to work in music—composing, recording, performing, and/or producing music. If that does not work, then he will have the degrees for other good jobs. He thinks one interesting fact about him is that he is still classified as an ELL student because he learned English and Turkish at the same time. **Stefan Boccieri** is in the eighth grade. He participates in several after-school activities and clubs, including Student Council, Robotics Club, Science Bowl, football, and track and field. His favorite subjects in school are science, because of his awesome science teacher, Mr. Sheehan, and math because it ties into science. Some of his interests are football, video games, reading, and model rocketry. He has not decided on a career but he would like to attend M.I.T. or Caltech for college. **Jordan Bruner** is a 13-year-old seventh grader. His favorite subjects in school are science, taught by his super awesome teacher Mr. Sheehan, and social studies. When he grows up, he wants to be a diplomat or an aeronautical engineer. In his free time, he enjoys playing sports, reading, and playing video games. His favorite sport is baseball but he enjoys basketball and football as well. This year he has also participated in the state FLL Robotics competition, the state MathCounts competition, the Spelling Bee, and the state Geography Bee. **Kyle Chapman** is a sixth grader. He likes checking up on the scientific progression of the modern world and reading about new inventions. He is in the Science Bowl Club. His favorite subject is mathematics because it teaches you how to apply different methods to problems you face in the real world. He does not know where he is going to go to college, but he plans on becoming an economist, mathematician, or video game designer. Some interesting facts about him are: he is a member of the Phoenix Boys Choir; he thinks Microsoft is better than Apple, except for the iPod; he has almost all of the Hardy Boys books; he likes science fiction and fantasy literature; and he likes Nintendo more than Sony or Microsoft gaming systems. **Timothy (Tim) Millea** is a seventh grader. He is interested in the fields of technology. He is a fair swimmer, fencer, and a second degree Black Belt. He plays D&D and video games in his spare time. He belongs to the Phoenix Falcon's Fencing Club, and goes to AZ Kicks for his Tae Kwon Do training. His favorite subject in school is science. He plans to go to college out-of-state and become a game designer for a U.S. or Canadian-based studio. He is preparing for this by engaging in RPG writing and game design document writing. His favorite movie is "Van Helsing" and his favorite TV show is "Mythbusters."

# McCullough Junior High School — The Woodlands, Texas

TEXAS A&M UNIVERSITY

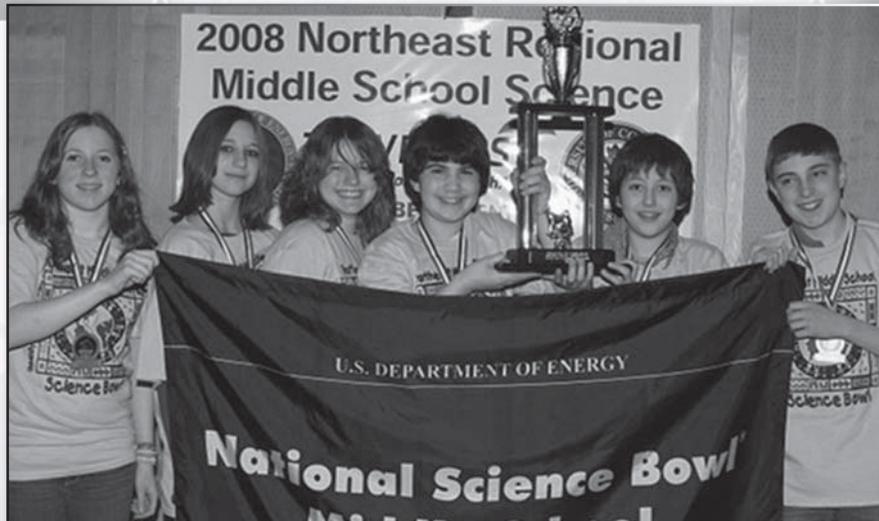


Left to right: Kasey Fowler, Jason Duance, Ryan Cole, Janene Fowler (Coach), Alex Brundage, Gail Colwell (Coach), Austin Kosin

**T**eam Coaches—**Gail Colwell's** 27 years of teaching have included everything from sponsor for Science Fair, Science Olympiad, Science Club, Odyssey of the Mind, Destination Imagination, and National Jr. Honor Society, to yearbook, and most recently, Science Bowl. Her background in geology and biology has come in handy for many of those, and she still enjoys leisure activities that involve those areas or any that take her closer to nature. **Janene Fowler** has been teaching junior high science for 21 years in Conroe ISD, Texas. Throughout her career, she has worked with students on Science Fair, Science Olympiad, Odyssey of the Mind, Destination Imagination, Science Club, Engineering Design Competition, and now Science Bowl. When not teaching, she SCUBA dives or travels whenever she can. Janene serves as a Naturalist on Board at the Flower Garden Banks National Marine Sanctuary.

**T**eam Members—**Alex Brundage** is a 13-year-old eighth grader. He runs for the school's cross-country team. He likes to listen to very heavy metal "screamo" bands like All That Remains. Alex is in orchestra and plays heavy metal on his cello. **Ryan Cole** is a 14-year-old eighth grader. He enjoys airsofting and soccer, and has one dog named Jack. Ryan enjoys Iron Maiden and other metal music. **Jason Duance** is a 13-year-old eighth grader and enjoys playing rugby on The Woodlands Rugby team. He is also on the McCullough tennis team. In his spare time, he listens to rock-and-roll music and plays on his computer. In the future, he plans to attend medical school and become a dentist. **Kasey Fowler** is a 14-year-old eighth grade student. She sings in the school choir and plays baritone in the band. Kasey is in the Sparrow Club, a community service organization. She loves reading books, especially fantasy books, and is a first degree level 2 Black Belt in Tae Kwon Do. **Austin Kosin** is 11 years old and in the seventh grade. He enjoys robotics and model rocketry. He has always loved science. When he was three years old he short-circuited his house, and has been a fan of electronics and wiring ever since. Austin plans to go to M.I.T. and become a rocket scientist.

# Newtown Middle School — Newtown, Connecticut UNIVERSITY OF CONNECTICUT



Left to right: Rebecca Greenawalt, Tara Rotas, Erin Cunningham, Ben Stoller, Tom Harrison, John Hampford; Not pictured: B.J. Liberty (Coach)

**T**eam Coach—**Betty Jane “B.J.” Liberty** was a medical technologist in a hospital for 29 years before becoming a teacher. She enjoys working in the garden, traveling, and introducing her students to the music of Bob Dylan and telling them hospital stories.

**T**eam Members—**Erin Cunningham** is an eighth grade student. Her favorite subjects are math and science. In the future, she would like to become a veterinarian and would like to attend Nonnewaug Agricultural Regional High School. Erin loves to horseback ride. She is currently doing trace and enjoys being outside, riding bikes, and hiking. **Rebecca Greenawalt** is currently in the eighth grade. She loves swimming (participating on two different teams for a total of five years), playing tennis, and going to the mall with friends. Her favorite subject is French, and she plans on becoming either a vet or a French teacher. She has a very big family, but her close family consists of her mom and dad, and her little sister, Sam, who is seven. **John Hampford**, an eighth grader, has achieved straight A's every marking period so far. He loves to play sports—especially baseball—and hang out with friends. His favorite class is science and he dreams of attending an Ivy League college. When he was younger, eighth grader **Thomas (Tom) Harrison** lived outside of London for a year and a half. At school, he enjoys playing lacrosse and wrestling. Recently he was in the school production of “Beauty and the Beast” as Cogsworth, the clock. Tom also collects Native American artifacts. **Ben Stoller** is an eighth grade student. He is actively involved in baseball and basketball year-round. Ben is a member of the NMS Drama Club and has participated in the G.A.T.E.S. program since fourth grade. He enjoys video games, board games, and chess.

# Riverside Middle School — Billings, Montana BILLINGS CLINIC SCIENCE EXPO



Left to right: Alyssa Espinoza, Elena Hernandez, Debbie Bomar, Sabrina Brawley; Not pictured: Patrick Kenney (Coach)

**T**eam Coach—**Patrick Kenney** has taught for 14 years in his school district and presently teaches sixth grade at Ponderosa Elementary. His main goal in the classroom is to integrate subjects in order to make as many relevant connections as possible. Science is one of his favorite subjects and he mentors students from third grade to high school in the local and state science fairs. Aviation is his main interest and several years ago he started an extracurricular aviation program. To date, his classes have built Chanute's 1896 Biplane, 1900 Wright Flyer, Chanute's 1896 Triplane, and a full restoration of a 1932 Pietenpol Aircamper.

**T**eam Members—**Debbie Bomar** is a 13-year-old seventh grader. She participates in Alateen and track. She has also done three years of gymnastics. Her favorite subjects are Pre-Algebra and Life Science. She is very interested in architectural engineering and interior design. She hopes to become such an engineer with her academic achievements such as the Presidential Award for Academic Excellence and her current GPA of 3.8. She is very excited to be representing her home school and town at this year's National event. **Sabrina Brawley** is in the eighth grade. She is currently trying out for the West High Majorette Team, where she will attend next year. She also participates in Educational Talent Search and is hoping to be accepted into Upward Bound. She is also hoping to become a volunteer at the local hospital. Last year, she spent 15 months as project manager restoring a 1932 Pietenpol aircraft for a museum in a neighboring town. Sabrina spent her 13th birthday in Washington, DC, at the Junior Young Leaders Congressional Youth Conference. She still enjoys spending time at the hangar and is currently restoring a 1967 VW beetle. She is also taking flying lessons and enjoys spending time with friends and family. She has participated in Science Fair for three years and this is her second year in the Science Bowl. Her favorite subjects are math and science. She would like to attend the Air Force Academy or possibly law school. She is also thinking about a professional flying career. **Alyssa Espinoza** is a seventh grader. Her interests are airplanes, animals, and having fun. Some of her hobbies include building and flying aircraft. Her favorite subjects in school are science and geography. She is hoping to go to the Air Force Academy and become a fighter pilot. She would also like to get her Master's in mechanical engineering. Last year, she participated in the restoration of a Pietenpol Aircamper built by David Comstock in 1932. After the restoration, she went to Oshkosh for the world's biggest fly-in. She also has two articles in Sport Aviation on the project and three in the local newspaper. The aircraft is currently on display in the Mussellshell Valley Historical Museum. She is currently building her own airplane, a Pietenpol Sky Scout and taking flying lessons. She loves flying and building airplanes and is so glad that she has earned the opportunity to do such things with the help of the Experimental Aircraft Association. **Elena Hernandez** is a seventh grader. Her interests are soccer and beading. When she beads, she makes bracelets and many other things. The clubs that she participates in are Late Night and MathCounts. Her favorite subjects are math and science, and at times, geography. Her plan for a career is to become a forensic pathologist. She is also in Educational Talent Search to help her get into college.

# Sierra Middle School — Las Cruces, New Mexico

## SOCIETY OF HISPANIC PROFESSIONAL ENGINEERS REGION 5 —

### EL PASO COMMUNITY COLLEGE



Left to right: Dave Wibe (Coach), Cindy Yeh, Ted Theisen, Hridindu Roychowdhury, Ross Radd, Stephen Markham

**T**eam Coach—**David (Dave) Wibe** has been teaching at Sierra Middle School for three years. Some of his interests are hunting, fishing, and other outdoor activities. He currently teaches eighth grade and also advises several after school activities in sciences and engineering. Something interesting about him is that he loves to umpire baseball in his spare time.

**T**eam Members—**Stephen Markham**, an eighth grader, has recently shifted interests to rocket science and Project Persephone (which is the rocket for the Mars Mission) and has been successful in drafting a design that is not problematically huge. He also enjoys blacksmithing and has informally discovered the magnetic secret (and literal design) to perpetual motion. He debates with many of his friends about politics and the economy. Some of the clubs that he is in include MESA, Boy Scouts of America, trumpet lessons, art classes, Karate, and a whole bunch of other stuff. His favorite subject in school is SCIENCE!!!!!!!!!!!!!! He goes there every day and learns something new. A new career path that has interested him since his trip to Houston is rocket science and astrophysics. He is planning on taking a job at NASA when he turns 16 (yes, he has two inside sources that can recommend him) and then pursuing whatever college they tell him to take, preferably M.I.T. for an undergraduate degree. **Ross Radd** is an eighth grader. He is involved in many extracurricular activities including guitar, piano, Karate, and MESA. His hobbies include writing, filming, acting in, and directing home movies and also writing about himself in third person. He is enrolled in the National Institute to Protect Endangered Scorporoosters and he has several famous quotes, including “Hi” and “If I ever grow up and become famous I will make sure that any of my famous quotes will be very, very short and to the point so that if some poor kid has to copy it down in social studies class, he or she won’t get any hand cramps,” which is variously ascribed. He has absolutely no plan for college because he does not know what classes he wants to take. **Hridindu Roychowdhury** is an eighth grade student. **Ted Theisen** is an eighth grader. He will be attending Las Cruces High School in the fall. He is a member of MESA and SEMAA, and plays percussion in the Sierra Middle School band. He participated in the LASSO swim team for a few years and will be volunteering at Memorial Medical Center over the summer. His favorite subjects in school are Spanish and science. His favorite forms of science are forensic science and biology. He plans on going to NMSU and majoring in forensic science or psychology. He likes to swim, play soccer, and mess around on the Internet in his free time. He likes to make Web sites, talk to friends, and play games. **Cindy Yeh** is an eighth grade student.

# St. Andrews Episcopal School — Amarillo, Texas

B&W PANTEX



Left to right: Nikit Desai, Saahil Mehta, Niral Desai, Cooper Lindsey, Kunal Mehta; Not pictured: Marcella Herrington (Coach)

**T**eam Coach—**Marcella Herrington** is completing her 38th year of teaching and will retire after the Science Bowl. She and her husband, Leonard, will then move to Montana to fly-fish, hike, snowshoe, and do all the outdoor activities they love. This is her team's fifth trip to the National Science Bowl® for Middle School Students.

**T**eam Members—**Nikit Desai** is a sixth grader who enjoys playing tennis. He is a straight-A student and likes to play golf, cricket, tennis, and basketball. He has two siblings; Niral, who is also on the team, and Priyal, his sister who is in college. His favorite subject is social studies. **Niral Desai** is an eighth grader. He has been to several competitions, including MathCounts, TAME Math and Science Competition, and Science Bowl. He plays piano and a little tennis. In his free time, he enjoys playing video games, playing on his computer, solving Rubik's Cubes, and sometimes playing DDR. Niral is the funniest guy in school and moonwalks from class to class. **Cooper Lindsey**, an eighth grader, competes in Science Bowl this year for the first time. His interests include sleeping, watching TV, and more currently, studying for Science Bowl. Cooper wants to eventually work in the "field" of nuclear physics, like in Fermi Lab, for example. Cooper thinks this would be a lot of fun, and as Confucius once said, "Pick a job you love and you will not work a day in your life." Cooper hopes to have fun this year in Colorado at the National Science Bowl® for Middle School Students. **Kunal Mehta**, team captain, is an eighth grader making his second trip to the National Science Bowl®. He was also a three-time school spelling bee champion, placed 11th in the state geography bee, and achieved state honors in Science Fair, MathCounts, TAME, and other academic contests. In his spare time, he is an avid tennis player and plays the guitar, but his favorite activity is sleeping. He hopes to go to Harvard and pursue a career in business. His favorite food is...anything that is vegetarian, and his favorite show is "Futurama." **Saahil Mehta** is a seventh grader who has done some competitions such as MathCounts, TAME, Science Bowl, and other competitions. His hobbies include video games, tennis, piano, DDR, and math. He considers himself a Mathlete, having won chapter MathCounts, and he enjoys competing against others on the Art of Problem Solving Web site. He is competing in National Science Bowl® for the second time.

# St. Christopher School — Tonawanda, New York

## ROCHESTER NATIONAL ORGANIZATION OF BLACK CHEMISTS AND CHEMICAL ENGINEERS



Left to right, Front row: Ricky Cappellazzo, Emily Wheeler, Michael Collins; Back row: Kelsey Ross, Alec SanLorenzo; Not pictured: Celeste Scarozza (Coach)

**T**eam Coach—**Celeste Scarozza** has a B.S. in biology and psychology with a minor in animal behavior and an M.S. in secondary education from Canisius College in Buffalo, NY. She has taught middle school science for the past eight years and serves as the advisor/coach for Science Bowl, Junior Solar Sprint, Yearbook, Stage Crew, P.R. Crew, and Ski Club, and she runs her school's annual I\*MA\*GREEN Nation Recycling Fair. Despite an obvious lack of free time during the school year, she enjoys reading, scrapbooking, traveling with her friends, and being a superstar bowler. Her least favorite element is bromine and she likes to encourage her students to aim for great success both in and out of the classroom with the idea, "Try not. Do or do not. There is no try."

**T**eam Members—**Ricky Cappellazzo** is a 13-year-old who is in the eighth grade. In his free time, he enjoys playing tennis and being with his friends. Ricky also participates in many activities at school, including Science Bowl, Future City, Solar Car, Student Council, Stock Market Club, soccer, Bound for Broadway, newspaper, and more. Ricky is very interested in a political or medical career or one in scientific research in the field of space exploration. Team captain, **Michael Collins**, is an eighth grader who plans on attending St. Joseph's Collegiate Institute in the fall. He enjoys playing lacrosse and street hockey with his friends, but is currently enthralled by a pursuit of pure alkali metal samples that he plans on dropping into buckets of water. He feels that the explosive experience this will give him, combined with his fascination with fire, will serve him well in pursuing his future goals of being a fire fighter and chemist. **Kelsey Ross** is a seventh grader. She enjoys playing softball and her favorite subjects are math, science, and gym. Kelsey has her heart set on going to Stanford to become a lawyer. One interesting fact is that she has never missed a day of school.....EVER!! Since eighth grader **Alec SanLorenzo** was young, he has always had a passion for science and is finally able to show it in this competition. He loves chemistry and biology and wishes to be a biochemist when he gets older. He is representing St. Christopher School at the upcoming competition and could not ask for a better team. Though he will be sad to leave his school next year, he will be attending St. Joseph's Collegiate Institute, which offers one of the best science programs around. He is hoping to pursue his dreams of becoming a biochemist by taking biology and chemistry during his first two years. His dream is to be able to use carbon to find the cure for cancer and other diseases. He is usually one to think outside the box and that is one of the reasons why his team does so well and is going to this National competition. **Emily Wheeler** is currently in the seventh grade. Her favorite subjects in school are science and language arts. Although she does not know what college she would like to attend, she does know she would like to be a pharmacist or a journalist when she is older. In her spare time, she takes part in many clubs, including Future City, Solar Cars, Student Council, Bound for Broadway, and Science Bowl, of course. She also enjoys dance class, where she takes tap, ballet, jazz, and musical theater.

# St. Ignatius Catholic School — Mobile, Alabama

## ALABAMA SCHOOL OF MATHEMATICS AND SCIENCE



Left to right: Austin Haley, Michael Duffey, Kathleen Powers, Charles Baldwin, Susan Duffey (Coach), Dr. Jane Ellis (ASMS president); Not pictured: Joe O’Gorman (Coach)

**T**eam Coaches—**Susan Duffey** is married to Dr. Richard Duffey (her coach) and is the mother of seven children. She graduated from Clarkson University and worked as a manufacturing engineer for Texas Instruments and as a hospital administrator before retiring to stay at home with her children. She coaches the Robotics Team and the Science Bowl Team. Her hobbies are reading, cooking, sewing, and hanging out at the beach. **Joseph (Joe) O’Gorman** is a senior at McGill-Toolen Catholic High School and a former National Science Bowl® participant. His favorite subjects are science and math and he is looking forward to attending Rice University in the fall, where he will major in biochemistry and math. He is active in HiQ, Scholar’s Bowl, Model UN, cross-country, and the pro-life club. His hobbies include computer games, Risk, and cards.

**T**eam Members—**Charles Baldwin** is an eighth grader. His interests and hobbies include current events, video games, television, reading, exercise, fishing, hunting, volunteer work, and traveling. His favorite activities would have to be spending time with friends, playing soccer, and sleeping. He participates in Science Bowl and Scholar’s Bowl. His favorite subject is science. He plans on attending college and studying medicine. He would like to be a neurologist. He was born in the rural town of Andalusia and loves pigs. **Michael Duffey** is an eighth grader. He is an avid reader and his favorite subject is science. He loves soccer, music, and Notre Dame football. He participates in Robotics, Scholar’s Bowl, math competitions, and Junior Lifeteen. He will attend McGill-Toolen Catholic High School in the fall. **Austin Haley** is in the eighth grade. He enjoys playing soccer and games on his computer. He participates in Scholar’s Bowl, Science Bowl, Computer Fair, and MathCounts. His favorite subject is math. His favorite band is Green Day. **Kathleen Powers** is in the eighth grade. She acts in her spare time and enjoys public speaking. She is in the Drama Club at her school and plays soccer for fun. Kathleen is planning on participating in chorus and playing softball for McGill-Toolen Catholic High School next year. At this point, she is considering a career in journalism.

# Takoma Park Middle School — Silver Spring, Maryland UNIVERSITY OF MARYLAND



Left to right, Back row: Jessica Phelan (Coach), James Shepherdson, Kathryn Waychoff;  
Front row: Daniel Amir, Charlie Pasternak, Avikar Periwal, Rebecca Epling (Coach)

**T**eam Coach—**Rebecca (Becca) Epling** has taught at Takoma Park Middle School in Silver Spring, MD, for three years. Prior to that, she taught in Colorado for four years. She has taught everything from ESOL to college psychology, but mostly sticks to middle school science. Becca sponsors Science Bowl and Horticulture Club at TPMS, and has been a drama coach in the past. This year, she was also on the Green School committee, applying for Green School Certification for TPMS. She spends her limited free time with her husband and dog, camping, hiking, or laying around in the back yard. Becca loves to read. She graduated from Reed College with a B.A. in psychology, finished a B.S. in biology at Metropolitan State College of Denver, and received her M.A. in Education from the University of Colorado at Denver.

**T**eam Members—**Daniel Amir** is in the sixth grade in the Magnet Program. Daniel is very interested in computer programming. In addition to Science Bowl, Daniel is also in French Club and MathCounts. His favorite subjects are science, computer science, and math. He currently cannot settle on a future plan for college. He is currently mastering Linux. **Charlie Pasternak** is a seventh grader. His favorite subjects are math, computer science, and science. As you can figure out (he hopes), he is interested in those three things. He is currently ranked 4th in Math Team and was 16th in the state of Maryland in MathCounts. He has absolutely no idea about college or career. Charlie plays the trumpet. **Avikar Periwal** is a sixth grader. He is currently interested in physics, calculus, and computer science. He participates in the Math Team, MathCounts, track team, and, of course, Science Bowl. He also swims, plays piano, and plays viola. Avikar's favorite subjects include science, math, and computer science. His Science Expo project involved taking the classic game Pong and using quantum mechanics instead of Newtonian mechanics. **James Shepherdson** is an eighth grader. He enjoys reading and playing the piano. Apart from being captain of his school's Science Bowl Team, he swims and likes to hike and ride his bicycle. At school, his favorite subject is clearly science, but he also enjoys math and computer science. James is interested in becoming a doctor or some sort of medical scientist, but has not, of course, made his final decision. **Kathryn Waychoff** is an eighth grader. Although she is on the Science Bowl Team, she actually is interested in other things. She can constantly be found playing her trumpet and/or singing (yes that includes doing both at the same time). She has been in Jazz band since sixth grade. Besides band, her favorite subject in school would probably be science, which is why she is on this team. She really has no plans for what she wants to be when she grows up, as long as it includes puppies, music, and explosions, excepting gross jobs like being a janitor. Kathryn is known as the Science Bowl Team's personal motivational speaker, because they are all champions. Her lifelong goal is to grow wings and learn to fly.

# The Sharon Academy — Sharon, Vermont WOODSTOCK UNION MIDDLE SCHOOL



Left to right; Front row: Josephine Adamski, Annabelle Roberts; Back row: Christian Durgin (Coach), Jake Hurwitz, Cedar Farwell, Evan Roe; Not pictured: Edie Farwell (Coach)

**T**eam Coaches—**Christian Durgin** is the middle school science and math teacher at The Sharon Academy in Sharon, VT, where he also coaches the soccer, math, and science teams. Christian received his B.S. in biochemistry from the University of New Hampshire and earned his teaching certificate from the Upper Valley Teachers Institute in Lebanon, NH. Christian lives with his wife and 16-month-old daughter in Wilder, VT. His favorite pastimes are gardening, reading, running, and swimming in cold mountain streams. **Edie Farwell** directs the Donella Meadows Leadership Fellows Program of the Sustainability Institute, which aims to accelerate the shift to global sustainability by increasing the impact of well-positioned sustainability leaders. Edie has an M.A. in cultural and social anthropology from the California Institute of Integral Studies; and a B.A. in anthropology and environmental studies from Dartmouth College. She lives with her husband and two sons in an ecovillage and organic farm in Hartland, VT. She enjoys hiking, canoeing, and cross-country skiing.

**T**eam Members—**Josephine Adamski** is an eighth grader. She enjoys playing soccer, composing music, and hanging out with her friends. She is currently involved in piano lessons, a band she jams with regularly, and soccer. Her favorite subject in school is science—particularly the physics piece. Eventually she hopes to have a career in marine biology, music composition, or sports science. The summer before last she went on a road trip with her dad, sister, brother, and step-mom. They went from Oregon to Colorado. This was the first time she had been sand boarding or surfing. Finally, she is very concerned about the environment. She is a granola child! **Cedar Farwell** is in the eighth grade. He likes to play soccer, juggle, hang out and listen to music, ski, and hike. He has taken piano for five years. His favorite subject is math. Last year he and his dad built an igloo and he spent his first night snow camping. He lives in an energy efficient solar house on an organic farm at a co-housing community in Hartland, VT. Last summer he worked on the vegetable farm as part of his community service. Other community service activities were volunteering at a soup kitchen and at the native plant nursery in San Francisco. He was born in San Francisco and moved to Vermont when he was seven. **Jake Hurwitz** is an eighth grader. He loves to race dirt bikes, play soccer, and mountain bike at Killington. He is also involved in baseball. His favorite subject in school is Literary Circle and he is also very interested in science. He has no set future plans but he wants to go to Vermont Academy of Sciences and Technology at Vermont Technical College. **Annabelle Roberts** is in the eighth grade. In the fall she does cross-country and soccer, in the winter she skis, in the summer she swims, and in the spring she runs track. Her favorite subjects in school are reading and writing. She enjoys helping the environment and helping in her community. When she grows up she wants to live by the beach. **Evan Roe** is a 13-year-old seventh grader. He is interested in farms, trains, and ships. He has a hobby of building a model railroad and he reads a lot. He is not part of any clubs, mainly because there are none in the school he goes to. His favorite subject in school is science, but he also likes language arts and math. He would like to go to either the Rensselaer Polytechnic Institute or the Vermont Technical College, and become a railroad engineer, civil engineer, or farmer when he grows up. Some interesting facts about him are that he really likes “Star Trek,” he is very interested in the concept of logic, he enjoys working by himself, and he works at a farm near his home.

# Treasure Valley Math and Science Center — Boise, Idaho

## NORTHWEST REGIONAL



Left to right: Kevin Brown, Alex Baca, Paul Schroeder, Andrew Hoth, Eddie Smith; Not pictured: Mark Anderson (Coach), Barbara Jorden (Coach)

**T**eam Coaches—**Mark Anderson** is a second year physics teacher at TVMSC. He has a Master's in computer engineering and enjoys learning as much as possible about the world. Mark enjoys backcountry skiing, whitewater kayaking and rafting, and mountain and road biking. He also likes to watch his two boys in their hobbies and sports. In his spare time, Mark helps the occasional environmental or political cause. **Barbara Jorden** is a parent volunteer. A graduate of Boise State University, she is currently the Legislative Director for the Idaho Trial Lawyers Association. Barbara lives in Boise with her husband, John, and children, Kevin, Skye, and Maia.

**T**eam Members—**Alex Baca** is an eighth grader. Alex enjoys playing strategy games and making models of planes, ships, and tanks. He also works with his dad on an HO scale train layout. His favorite subject is history. Alex has competed at the state level Geography Bee for several years, this year winning eighth place. **Kevin Brown** is an awesome eighth grade student. He likes REM, D&D, Runescape, reading Clive Cussler books, and his cat, named Moodah. Kevin won Destination Imagination two weekends before the Regional Science Bowl. Kevin plans to go to a prestigious math and science college and become a civil engineer. He takes accelerated geometry, Earth science, and chemistry at TVMSC as well as English, social studies, P.E., and computer applications. **Andrew Hoth** is an awesome eighth grader. He wrestles, plays football, and acts as the lead in dramas. He loves books, music, and board games. You will probably find him at school or the library. **Paul Schroeder** is an awesome eighth grader. His interests include playing the violin, listening to music, reading, sketching, and painting. He is active in the National Honor Society, the Idaho RUSH soccer club, Idaho Olympic Development Soccer, and the U.S. Tennis Association. His favorite subjects are Algebra II, world history, and biology. He is interested in civil engineering and architecture, and aspires to attend a college like M.I.T., or another engineering college. In his spare time, he enjoys sketching designs for future buildings and traveling to see interesting buildings. He also enjoys airsofting with friends. **Noel "Eddie" Smith** is currently an awesome seventh grader. His hobbies include reading and playing video games. Eddie's favorite classes in school are geometry, chemistry, Earth science, and computer applications. At this time, college plans are unknown, but he plans to have a career in the math, science, or technology fields.

# Triadelphia Middle School — Wheeling, West Virginia WEST LIBERTY STATE COLLEGE SMART CENTER



Left to right, Front row: Janine Reddy (Coach), Annie Barbeau, Kyle Lestini, Lauren Smaltz, Mindy Tripp (Coach); Back row: Brent Bishop, Bobby Sellers

**T**eam Coaches—**Janine Reddy** has been a science teacher for eight years at Triadelphia Middle School. She was a medical technologist for 15 years at a local hospital before teaching. While there, she assisted with autopsies. She has two teenage children and a husband. Both of her children had her as their seventh grade science teacher! It was enjoyable but also had its days. Janine enjoys investigating new ideas in science and opening students' minds to all possibilities. **Mindy Tripp** is cheering on the TMS Raiders from home in Wheeling, WV. Recently married to a science teacher (perfect chemistry!), she enjoys reading, cooking, and cheering on the Mountaineers! She has taught at TMS for seven years. This is her second winning MSSB team to qualify for Colorado. Go Raiders!

**T**eam Members—**Angelique (Annie) Barbeau** is a 14-year-old eighth grader. She is a straight-A, high honors student. Her favorite subjects are strings and science. She is in the gifted program and is involved in RAZE, NJHS, and MathCounts. She plays piano, cello, and electric bass in the Jazz band. She is a cellist for the Wheeling Symphony Youth Orchestra. She loves to travel and has journeyed through the states, Australia, Canada, China, and Japan. She enjoys soccer, biking, and skateboarding. She hopes to be a cardio-thoracic surgeon. **Brent Bishop** is in the eighth grade. He spends a lot of his time playing soccer and collecting coins. He is in the Boy Scouts of America, MathCounts, and NJHS. Brent loves to study math and science and hopes to join the Air Force. He wants to earn a Master's degree in aeronautical engineering. Brent owns eight gnomes and knows everything about gnomes! **Kyle Lestini** is in the eighth grade. He loves music and participates in the strings, band, and chorus programs. He has straight A's and is in the NJHS. He loves to work with computers and hopes to someday become a veterinarian. **Bobby Sellers** is an eighth grade student. He is attending his second MSSB and serves as this year's captain. He enjoys playing soccer, astronomy, and model airplanes. He is in the NJHS and MathCounts. He would like to attend the Air Force Academy and major in physics. He wants to be a pilot. **Lauren Smaltz** is in the eighth grade. She enjoys dancing and singing. She is a member of the NJHS and loves math and science. She is also a member of the TMS MathCounts team and chorus. Lauren plans to go to medical school and become a pediatrician.

# Van Antwerp Middle School — Schenectady, New York

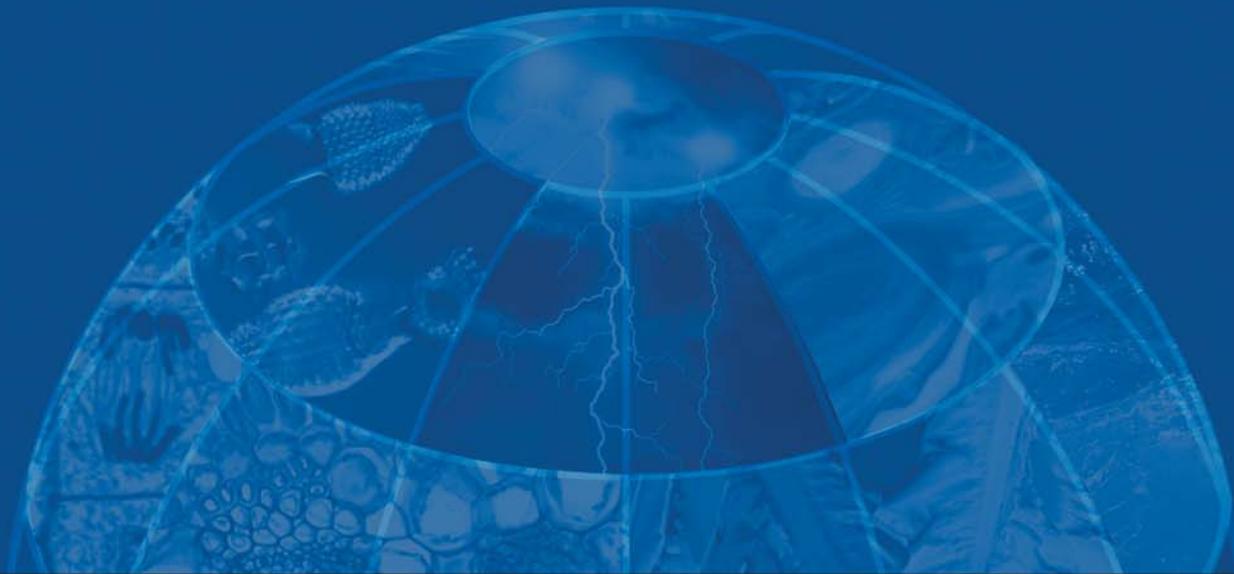
KAPL, INC. / GE GLOBAL RESEARCH CENTER



Left to right, Front row: Connie Soron (Coach), Talia Salenger, Colin Sweeney, Troy Manchester, Gabriel Holodak; Back row: Michael Barnes; Not pictured: Dan Barnes (Coach)

**T**eam Coaches—**Dan Barnes** has enjoyed a variety of positions as a chemical engineer and currently works for Lockheed-Martin. He likes to camp, hike, and eat good food. Because of the latter, he has been a runner for years and completed a few marathons. **Connie Soron** considers herself a life-long learner and teacher. She has had the privilege of teaching grades from fourth through college-level, and middle school is her favorite! She is a nationally board certified teacher in early adolescence/science, and loves working with kids and introducing them to the amazing opportunities for discovery in science. She loves to read, travel, and spend time with family and friends.

**T**eam Members—**Michael Barnes** is an eighth grader. He is doing spring rowing and plays two instruments, the French horn and piano. He is in the middle school wind band and Jazz band on the French horn. Besides this, he is also in Science Bowl for his second year. Michael enjoys math and science as well as social studies at school. He is not sure about what his future career will be, but he is interested in architecture. He currently owns two pet rats. **Gabriel Holodak** is in the eighth grade and is team captain. He plays the bagpipes and is in a youth pipe band in his area. He likes to read, run, ride his bike, and play soccer. He has fun with his friends playing games like Heroscape and Dungeons and Dragons. His favorite subjects in school are technology, science, math, Spanish, and art. Gabriel is also involved in Drama Club and a pod casting group. He would like to have a job related to computers, and is interested in helping the environment. **Troy Manchester** is an eighth grade student. His hobbies are reading, working with computers, and keeping up with his schoolwork. He is also involved in the middle school lacrosse team. His favorite subjects are science and technology. He plans to attend M.I.T. and get a job as a software engineer. Troy can also play the kazoo, write computer programs in Python, and was named after the city Troy, NY, where he was born. He thinks the most important science discoveries are: the discovery of DNA by Watson and Crick, the invention of the transistor by John Bardeen and Walter Brattain, and all of the medical advances and cures developed in the past century. **Talia Salenger** is in the eighth grade. She enjoys playing field hockey and volleyball and participating in Drama Club with her friends. Her favorite subjects are math and science, though her best ones are English and Spanish. Talia likes to try new things. She wants to do something combining writing, science, and the environment when she grows up. She spends her summers in Israel where her family has a house, and has been to several camps there. She is currently trying to publish a fantasy novel. Her favorite thing to do is, of course, settle down with a good book. **Colin Sweeney** is in the eighth grade. His interests and hobbies include reading, building Legos, playing trumpet, playing pipe organ, rowing and coxing, playing Heroscape, making items with Sculpty clay, and making movies. He is involved in the eighth grade wind band, the Jazz band, and is an active member of Boy Scout Troop 37. His favorite subjects in school are science, math, and technology. He wants to attend Penn State University and major in metallurgical engineering. An interesting fact about him is that he is a coxswain, or a small person who sits in the back of a rowing shell and steers and yells at the rowers. He also enjoys reading *Popular Science* magazine and loves Earth science. The three most important science discoveries to him are that biofuel can be refined from algae, certain genetically modified E. coli can make glucose into hydrocarbons (like gasoline), and that ethanol can be produced from garden or plant waste using enzymes from the guts of termites.



# Discoveries Changing the World



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